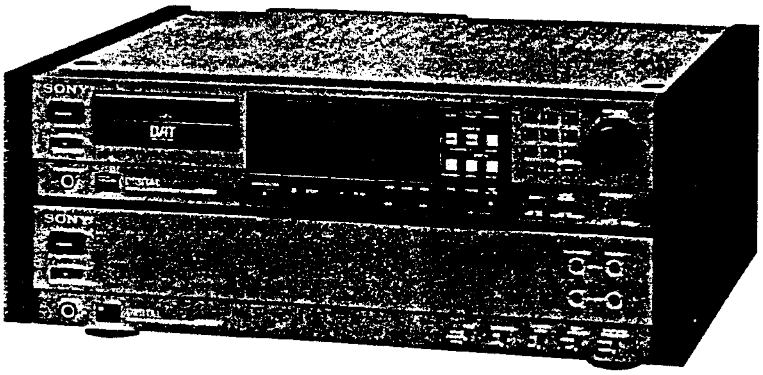
PCM-2500

SERVICE MANUAL

US Model
Canadian Model
AEP Model



SPECIFICATIONS

Digital Tape Recorder

General

Power requirements	100, 120, 220 or 240 V AC adjustable, 50/60Hz
Power consumption	37 W
Operating temperature	0°C to 40°C (32°F to 104°F)
Dimensions (w/h/d)	Approx. 430 × 100 × 420 mm (17 × 4 × 16 5/8 inches)
Weight	Approx. 11.2 kg (26 lb 15 oz)
Tape	Digital audio tape
Head	Rotary head
Recording time	120 minutes (with DT-120)
Tape speed	8.15 mm/s
Drum rotation	2,000 rpm
Error correction method	Doubly-Encoded Reed Solomon code

Digital audio

Track pitch	13.6 μm (20.4 μm)
Sampling frequency	48 kHz, 44.1 kHz, 32 kHz
Modulation method	8-10 modulation
Transfer rate	2.46 Mbit/sec. (before modulation)
Number of channel	2 channels, stereo
D/A conversion	16-bit linear
Frequency response	2 Hz-22,000 Hz (±0.5 dB)
Dynamic range	More than 90 dB
Total harmonic distortion	Less than 0.05% (at 1kHz, 4 dBs input)
Wow and flutter	Below measurable limit

Input/output

Interface with the interface unit

Analog input/output

Connector	Type
Interface 1 / 2 / 3 / 4	Phono jacks

Digital input/output

Connector	Type
Interface 5	25-pin

Clock output

Connector	Type
Interface 6	BNC

Other output HEADPHONES: Stereo phone jack

Interface Unit

General

Power requirements	100, 120, 220 or 240 V AC adjustable, 50/60 Hz
Power consumption	12 W
Operating temperature	0°C to 40°C (32°F to 104°F)
Dimensions (w/h/d)	Approx. 430 × 100 × 390 mm (17 × 4 × 15 3/8 inches)
Weight	Approx. 6.2 kg (13 lb 11 oz)

Input/output

Interface with the digital tape recorder

Analog input/output

Connector	Type
Interface 1 / 2 / 3 / 4	Phono jacks

Digital input/output

Connector	Type
Interface 5	25-pin

Clock input

Connector	Type
Interface 6	BNC

Analog input

Connector	Type	Rated input level	Maximum input level
ANALOG IN	XLR-3-31 or equivalent	+4 dBs	+24 dBs (0 dBs = 0.775Vrms)

Analog output

Connector	Type	Rated output level	Maximum output level
ANALOG OUT	XLR-3-32 or equivalent	+4 dBs	+24 dBs (load impedance 600Ω)

DIGITAL TAPE RECORDER

SONY®

TC

Digital input

Connector	Type	Impedance	Rated input level
S/P DIF IN	Phono jack	75 ohms	0.5Vp-p
AES/EBU IN	XLR-3-31 or equivalent	110 ohms	RS-422
SDIF-2 IN	BNC, ×2	75 ohms	TTL level

Digital output

Connector	Type	Rated output level	Load impedance
S/P DIF OUT	Phono jack	0.5Vp-p	75 ohms
AES/EBU OUT	XLR-3-32 or equivalent	RS-422	110 ohms
SDIF-2 OUT	BNC, ×2	TTL level	75 ohms

Sync output for SDIF-2

Connector	Type	Rated output level	Load impedance	Accuracy
WORD SYNC OUT	BNC	TTL level	75 ohms	±30ppm (25±2°C) ±60ppm (−10°C to 60°C)

Others

Maximum cable length

AES/EBU format: 300m max. (with ECD-30C)

Accessories supplied

Wireless remote commander (1)
Wired remote commander (1)
Sony batteries SUM-3(NS) (4)
Analog signal connecting cords (phono plug×2—phono plug×2) (2)
Digital signal connecting cable (25-pin—25-pin) (1)
Sync signal connecting cord (BNC—BNC) (1)
Side panel (2)
Screws to secure the side panels (8)

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270°C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

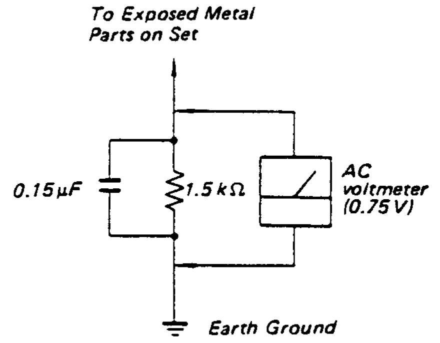


Fig. A. Using an AC voltmeter to check AC leakage.

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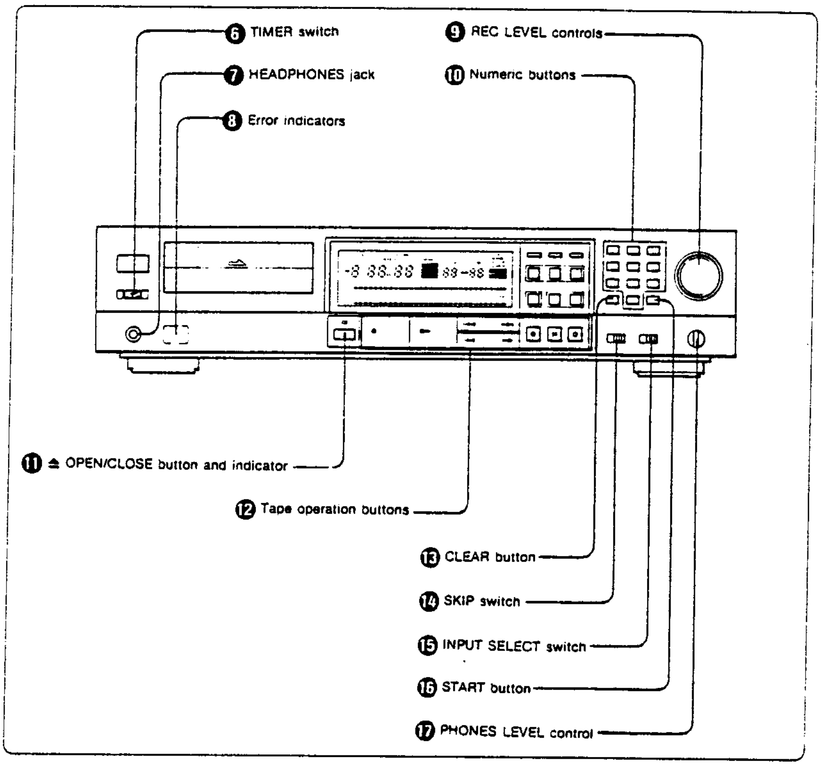
Notes on repair:
Be sure to connect a digital tape recorder and interface unit during repair. If not, no signal is output.


⑥ TIMER switch
⑦ HEADPHONES jack
⑧ Error indicators
⑨ REC LEVEL controls
⑩ Numeric buttons
⑪ ≜ OPEN/CLOSE button and indicator
⑫ Tape operation buttons
⑬ CLEAR button
⑭ SKIP switch
⑮ INPUT SELECT switch
⑯ START button
⑰ PHONES LEVEL control

⑥ **TIMER switch**
Normally set to OFF. Used to start recording or playback at the desired time using a commercially available audio timer.

⑦ **HEADPHONES jack (stereo phone jack)**

⑧ **Error indicators**
The green indicator lights while bit errors are being detected during playback and the recorder is correcting the errors. The orange indicator lights while bit errors are being detected during playback and the recorder is interpolating data.

⑨ **REC LEVEL (recording level) controls**
Adjust the recording level of analog input source. The outer knob controls the left channel level and the inner knob, the right channel level. Normally keep the controls turned fully clockwise, and adjust the recording level using the RECORD (recording level) controls on the interface unit.

⑩ **Numeric buttons ([0]-[9])**
Press to designate the program number.

⑪ **≜ OPEN/CLOSE button and indicator**

⑫ **Tape operation buttons**
■ STOP button
► PLAY button
►►CUE (fast-forward/cue) button
◄◄REVIEW (rewind/review) button
|◄◄AMS: Press to locate the beginning of the selection in backward direction.
►►| AMS: Press to locate the beginning of the selection in forward direction.
● REC (recording) button
II PAUSE button: If the pause mode continues for about 10 minutes, it will be released automatically and the recorder will enter the stop mode.
○ REC MUTE (record muting) button

⑬ **CLEAR button**
Used to cancel the program number which has been entered mistakenly.

⑭ **SKIP switch**
Set this switch to ON to skip, during playback, the selections recorded with a skip ID code. Set it to OFF to play back the whole tape as it is.

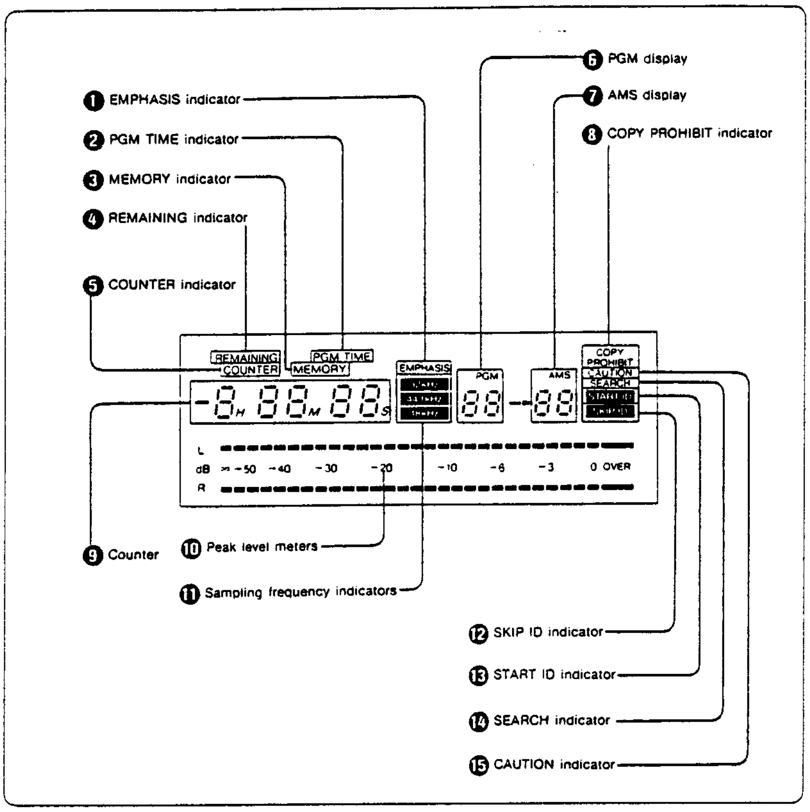
⑮ **INPUT SELECT switch**
ANALOG: For recording from the equipment connected to the ANALOG IN connectors of the interface unit.
DIGITAL: For recording from the equipment connected to the SDIF-2 IN connectors, the AES/EBU IN connector, or the S/P DIF IN connector of the interface unit.

Note
Recording a digital source program with copy prohibit signal or with the sampling frequency of 44.1 kHz from the S/P DIF IN connector is not possible.

⑯ **START button**
Starts playback from the designated selection or activates the music scan operation.

⑰ **PHONES LEVEL (headphones level) control**

Display Window of the Digital Tape Recorder


❶ EMPHASIS indicator
❷ PGM TIME indicator
❸ MEMORY indicator
❹ REMAINING indicator
❺ COUNTER indicator
❻ PGM display
❼ AMS display
❽ COPY PROHIBIT indicator
REMAINING
COUNTER
PGM TIME
MEMORY
EMPHASIS
PGM
AMS
COPY PROHIBIT
CAUTION
SEARCH
START ID
SKIP ID
H
M
S
L
dB
R
-50
-40
-30
-20
-10
-6
-3
0 OVER
❾ Counter
❿ Peak level meters
⓫ Sampling frequency indicators
⓬ SKIP ID indicator
⓭ START ID indicator
⓮ SEARCH indicator
⓯ CAUTION indicator

❶ **EMPHASIS indicator**
Lights up in the following cases.
- When recording digital source program with emphasis.
- When recording analog source program with the EMPHASIS switch on the interface unit set to ON.
- When playing back a pre-recorded tape which is recorded with emphasis.

❷ **PGM TIME (program time) indicator**
Lights up to show that the counter is displaying the elapsed time of the current selection.

❸ **MEMORY indicator**
Lights up when the MEMORY button is pressed to show that the "0M 00S" point is stored in memory.

❹ **REMAINING indicator**
Lights up to show that the counter is displaying the remaining time. The remaining time is not displayed during search operation (the SEARCH indicator lights), fast-forwarding or rewinding.

❺ **COUNTER indicator**
Lights up to show that the counter is displaying the tape running time.

❻ **PGM (program number) display**
Shows the program number of the selection being played.

❼ **AMS (automatic music sensor) display**
Shows the number of selections to be skipped ahead or back in AMS operation. When a numeric button is pressed, the display shows the program number of the target selection while the selection is being searched for.

❽ **COPY PROHIBIT (digital copy prohibit) indicator**
Lights up when recording with the COPY PROHIBIT switch on the interface unit set to ON. This indicator blinks when the copy prohibit signal is encoded on the source signal input through the S/P DIF IN connector. In this case, recording cannot be made.

❾ **Counter**
Displays the tape running time, elapsed time of the selection being played, and the total remaining time of the tape. Each time COUNTER MODE is pressed, the display mode is changed in turn.

❿ **Peak level meters**
Display the level of the signal being recorded during recording, and the peak values of the signal recorded on the tape during playback.

⓫ **Sampling frequency indicators**
When the power is turned on, "48 kHz" lights up. While the cassette is being located, the indicator corresponding to the SAMPLING FREQUENCY selector position lights up. When recording digital program source, the indicator corresponding to the sampling frequency of the program source lights up. When recording analog program source, the indicator corresponding to the position of the SAMPLING FREQUENCY switch on the interface unit lights up.
During playback, the indicator corresponding to the sampling frequency of the tape lights up.
In other cases, the indicator previously activated stays on.

* "32kHz" lights up when recording digital source program input from the AES/EBU IN or the S/P DIF IN connector(s).

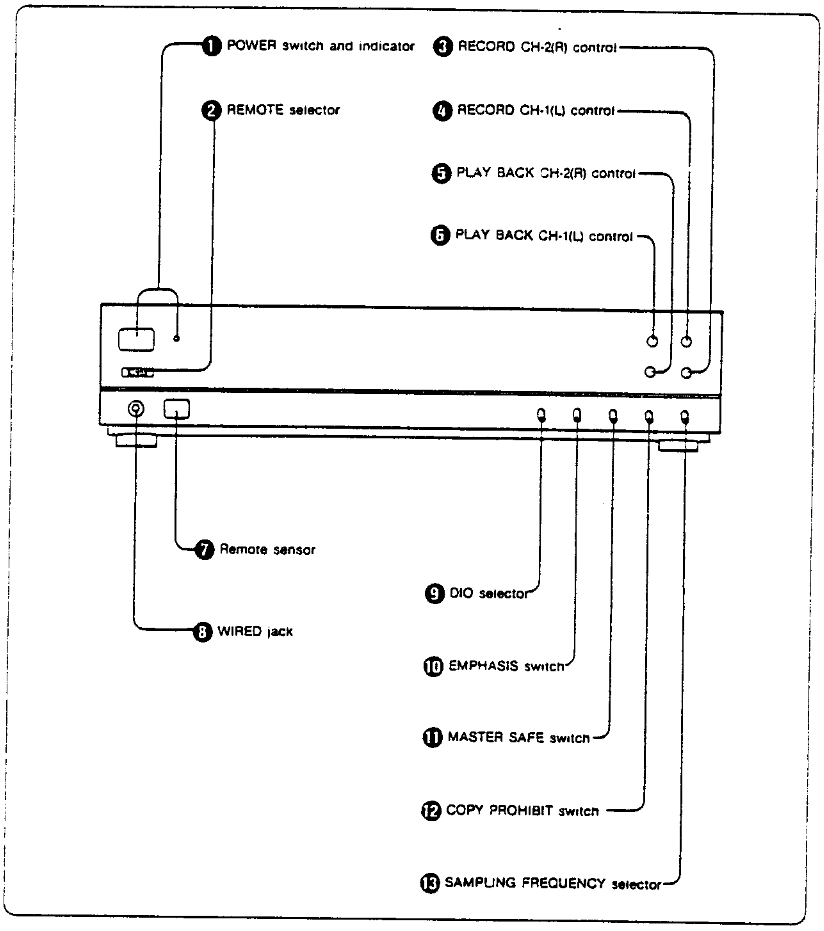
⓬ **SKIP ID indicator**
Lights up momentarily when writing or erasing a skip ID code, or when the skip ID is detected during playback.

⓭ **START ID indicator**
Blinks when writing or erasing a start ID code, or lights up when the start ID is detected during playback.

⓮ **SEARCH indicator**
Lights up while a selection is being searched for.

⓯ **CAUTION indicator**
Blinks when moisture condensation occurs. If this happens, the recorder stops automatically.

Front Panel of the Interface Unit



① **POWER switch and indicator**

② **REMOTE (remote commander) selector**
Selects the type of the remote commander to be used.
WIRED: The wired remote commander connected to the WIRED connector is operative.
OFF: Both the wired and the wireless remote commanders are inoperative.
WIRELESS: The wireless remote commander is operative.

③ **RECORD CH-2(R) (channel 2 recording level) control**

④ **RECORD CH-1(L) (channel 1 recording level) control**
These controls adjust the output signal level from the interface unit to the recorder within a range from −20 dB to −2 dB.

⑤ **PLAY BACK CH-2(R) (channel 2 playback level) control**

⑥ **PLAY BACK CH-1(L) (channel 1 playback level) control**
These controls adjust the output signal level at the ANALOG OUT connectors within a range from −6 dB to +12 dB.

⑦ **Remote sensor**
Provided to receive control signal emitted from the supplied wireless remote commander.

⑧ **WIRED (wired remote commander) jack** (stereo phone jack)
Provided to connect the supplied wired remote commander.

⑨ **DIO (digital input/output) selector**
Selects the digital input/output connectors to be used.
When recording digital source program, the INPUT SELECT switch on the digital tape recorder should be set to DIGITAL.
S/P DIF: For the use of the S/P DIF IN/OUT connectors.
AES/EBU: For the use of the AES/EBU IN connectors.
SDIF-2: For the use of the SDIF-2 IN connectors.

Note
The SDIF-2 OUT connectors always emit digital audio signal regardless of the position of this selector. The AES/EBU OUT connector emits digital audio signal when this selector is set to the position other than S/P DIF.

⑩ **EMPHASIS switch**
When recording analog source program, this switch activates (ON) or deactivates (OFF) the pre-emphasis circuit.
When this switch is set to ON, the EMPHASIS indicator lights up on the display window of the recorder.
The setting of this switch does not affect recording of digital source program. (If the source program is pre-emphasized, it is recorded with emphasis. If not, it is recorded without emphasis.)
The setting of this switch does not affect playback neither. (During playback, the de-emphasis circuit operates according to the emphasis information on the tape being played.)

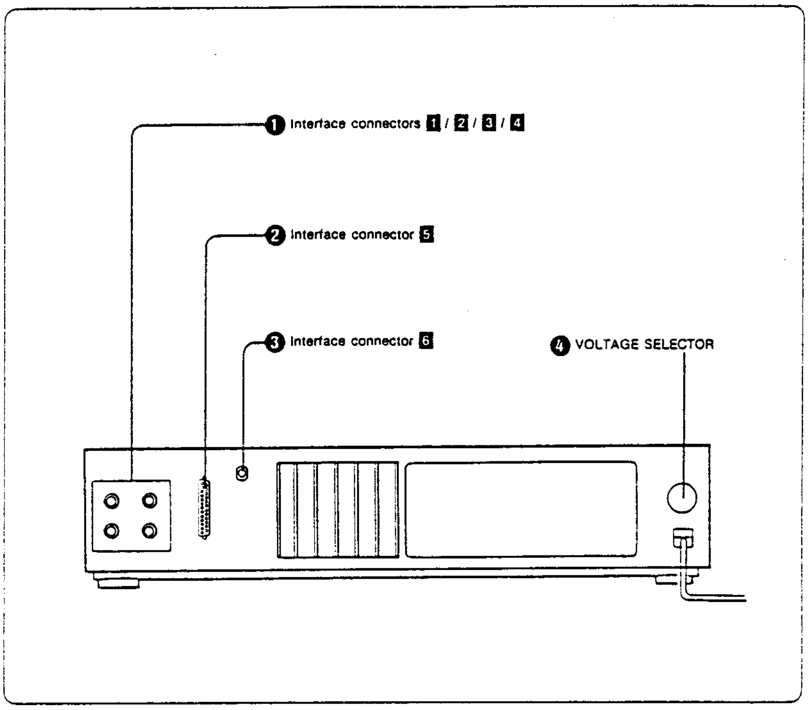
⑪ **MASTER SAFE switch**
When this switch is set to ON, recording with the digital tape recorder is made impossible. (The REC button on the recorder does not function even if the safety tab on the cassette is set to the record-possible position.) Thus the PCM-2500 can be used as a master tape player exclusively.
When this switch is set to OFF, recording is made possible. When this switch is turned ON during recording, recording is suspended and the previously recorded material is retained. Playback is always possible regardless of the position of this switch.

⑫ **COPY PROHIBIT switch**
Selects whether the copy prohibit signal is recorded (WRITE) or not (OFF) when recording any input source program.
The copy prohibit information on the digital source program itself does not affect the recording result, but only the setting of this switch does.

⑬ **SAMPLING FREQUENCY selector**
Selects the sampling frequency (48 kHz or 44.1 kHz) for digital recording of analog source program.
Selects also the sampling frequency for recording of digital source program through the SDIF-2 IN connector (provided that the connected equipment can issue signal with the sampling frequency of 48 kHz).
The setting of this selector does not affect recording of other digital source program, and the sampling frequency of the digital source program is applied as it is when being recorded.

Note
When recording the digital source program with the sampling frequency of 44.056 kHz through the AES/EBU IN connector or the S/P DIF IN connector, the sampling frequency of 44.1 kHz is automatically selected on the PCM-2500. When the recorded material is played back, therefore, playback pitch will be increased by approximately 0.1%, and the ATF servo may not be applied correctly.

Rear Panel of the Digital Tape Recorder


❶ Interface connectors 1 / 2 / 3 / 4
❷ Interface connector 5
❸ Interface connector 6
❹ VOLTAGE SELECTOR

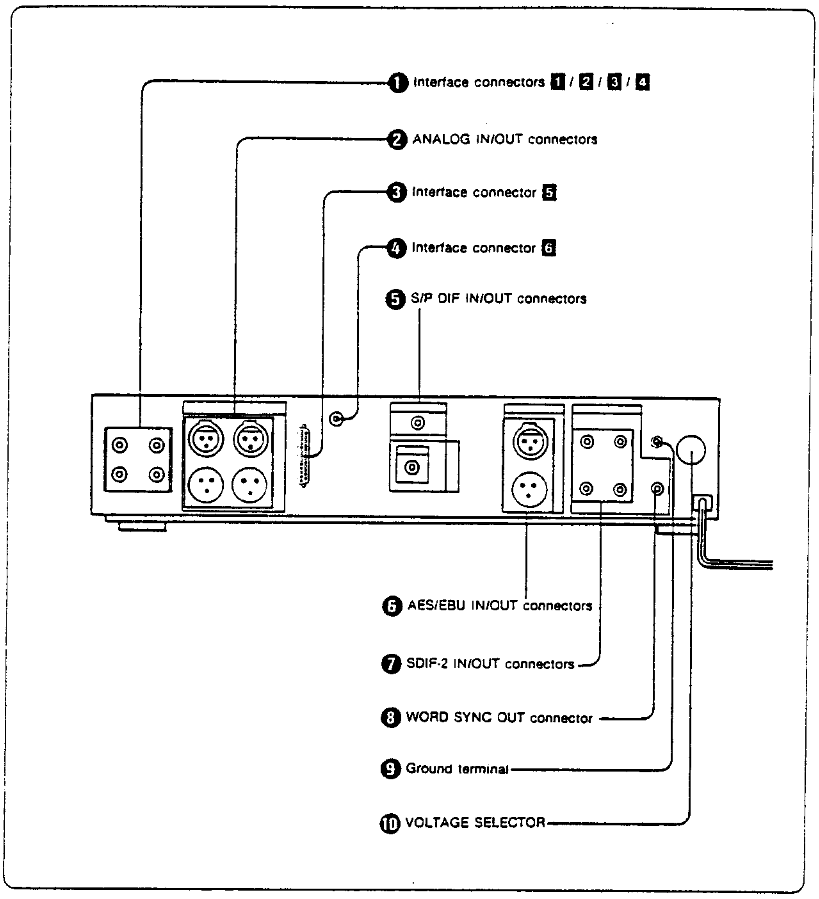
❶ **Interface connectors 1 / 2 / 3 / 4** (phono jacks)
For analog signal input/output. To be connected to the interface connectors 1 / 2 / 3 / 4 of the interface unit.

❷ **Interface connector 5** (25-pin)
For digital signal input/output. To be connected to the interface connector 5 of the interface unit.

❸ **Interface connector 6** (BNC type)
For the clock signal (128 FS) output. To be connected to the interface connector 6 of the interface unit.

❹ **VOLTAGE SELECTOR**

Rear Panel of the Interface Unit


❶ Interface connectors 1 / 2 / 3 / 4
❷ ANALOG IN/OUT connectors
❸ Interface connector 5
❹ Interface connector 6
❺ S/P DIF IN/OUT connectors
❻ AES/EBU IN/OUT connectors
❼ SDIF-2 IN/OUT connectors
❽ WORD SYNC OUT connector
❾ Ground terminal
❿ VOLTAGE SELECTOR

❶ **Interface connectors 1 / 2 / 3 / 4** (phono jacks)
For analog signal input/output. To be connected to the interface connectors 1 / 2 / 3 / 4 of the digital tape recorder.

❷ **ANALOG IN/OUT (analog input/output) connectors** (XLR-3-31/XLR-3-32 or equivalent)
Analog audio signals are input/output.

❸ **Interface connector 5** (25-pin)
For digital signal input/output. To be connected to the interface connector 5 of the digital tape recorder.

❹ **Interface connector 6** (BNC type)
For the clock signal (128 FS)input. To be connected to the interface connector 6 of the digital tape recorder.

❺ **S/P DIF IN/OUT (Sony-Philips digital interface input/output) connectors** (phono jacks)
Digital audio signals which conform to the Sony-Philips format are input/output.

❻ **AES/EBU IN/OUT (AES/EBU format digital input/output) connectors** (XLR-3-31/XLR-3-32 or equivalent)
Digital audio signals which conform to the AES/EBU format are input/output.

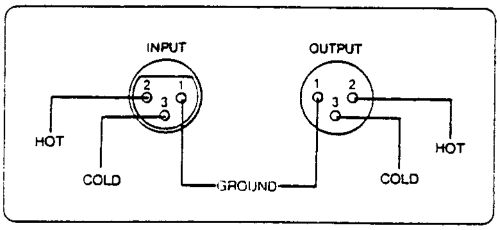
❼ **SDIF-2 IN/OUT (Sony digital interface 2 format input/output) connectors** (BNC type)
Digital audio signals which conform to the SDIF-2 format (the format used in the Sony PCM-1630/1610 digital audio processor) are input/output.

❽ **WORD SYNC OUT (output) connector** (BNC type)
A word sync signal (48 kHz/44.1 kHz) is output from this connector when the SDIF-2 IN/OUT connectors are used.
Connect to a word sync input connector of another digital audio recorder to synchronize the PCM-2500 with the connected recorder.

❾ **Ground terminal**

❿ **VOLTAGE SELECTOR**

Pin assignment of the XLR type connectors


INPUT
OUTPUT
2
1
3
1
2
3
HOT
COLD
GROUND
COLD
HOT

DISPLAY IN TEST MODE

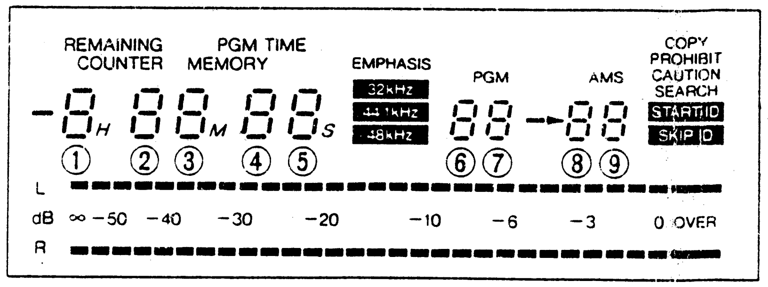
The internal CPU modes can be displayed for servicing on the counter's seven-segment display.

(a) The following modes can be displayed:

- Mechanical operation
  (Mechanical microcomputer operation)
- Mechanical instruction
  (Main microcomputer instruction)
- Operation/operation completion
- End sensor normal/abnormal
- Cassette half existence
- OPEN/CLOSE
- Tape end (take-up)/normal
- Tape end (supply)/normal
- A/B head RF existence
- WIDTH 1.5 times normal speed/NOT 1.5 times normal speed
- Soft tape/normal tape
- REC inhibit/OK
- Drum normal/abnormal
- Tray in/out
- TEST mode/NOT TEST mode
- Take-up end hold/NOT hold
- Tray loading normal/abnormal
- Position EJECT/NOT EJECT
- Measure End
- Preend
- Take-up Reel Stop
- Supply Reel Stop
- Measure completion

(b) To display the test modes, connect pin 67 of mechanical microcomputer IC512 to GND, and press the counter's MODE switch for three times.

(c) The indicator display is described below.
Using indicators (1) through (9), data in main microcomputer is displayed by four bits (hexadecimal).
(Items (1), (3), (4), (5), and (6) are mechanical micromcomputer data; (2) and (9) are main microcomputer data; and (8) is reel microcomputer data.)



Display position	Description	
①	Mechanical operation	
②	Mechanical instruction (main microcomputer to mechanical microcomputer)	
③	0	Operation mode (OPERATION/COMPLETION)
	1	End sensor (NORMAL/ABNORMAL)
	2	Cassette half (YES/NO)
	3	OPEN (OPEN/CLOSE)
④	0	Tape end take-up reel (TOP/NOR)
	1	Tape end supply reel (END/NOR)
	2	RF (NO RF/RF)
	3	WIDTH (1.5 TIMES NORMAL SPEED/NOT 1.5 TIMES NORMAL SPEED)
⑤	0	Tape (SOFT/NORMAL)
	1	REC (INHIBIT/OK)
	2	DRMERR (DRUM NORMAL/ABNORMAL)
	3	TOUT (TRAY IN/OUT)
⑥	0	FTEST (TEST MODE/NOT TEST MODE)
	1	TEUDH (TAKE-UP END HOLD/NOT HOLD)
	2	TLABF (TRAY LOADING NORMAL/ABNORMAL)
	3	PEJCT (EJECT POSITION/NOT EJECT POSITION)
⑦	0	Not Used. (Digit may vary.)
	1	
	2	
	3	
⑧	0	Measure End
	1	Preend
	2	Take-up Reel Stop
	3	Supply Reel Stop
⑨	0	Not Used. (Digit may vary.)
	1	
	2	
	3	Measure completion (COMPLETED/NOT COMPLETED)

(d) Display positions (1) and (2) are shown below.
(The same data as in (2) is displayed in (1) at all times with a slight delay.)

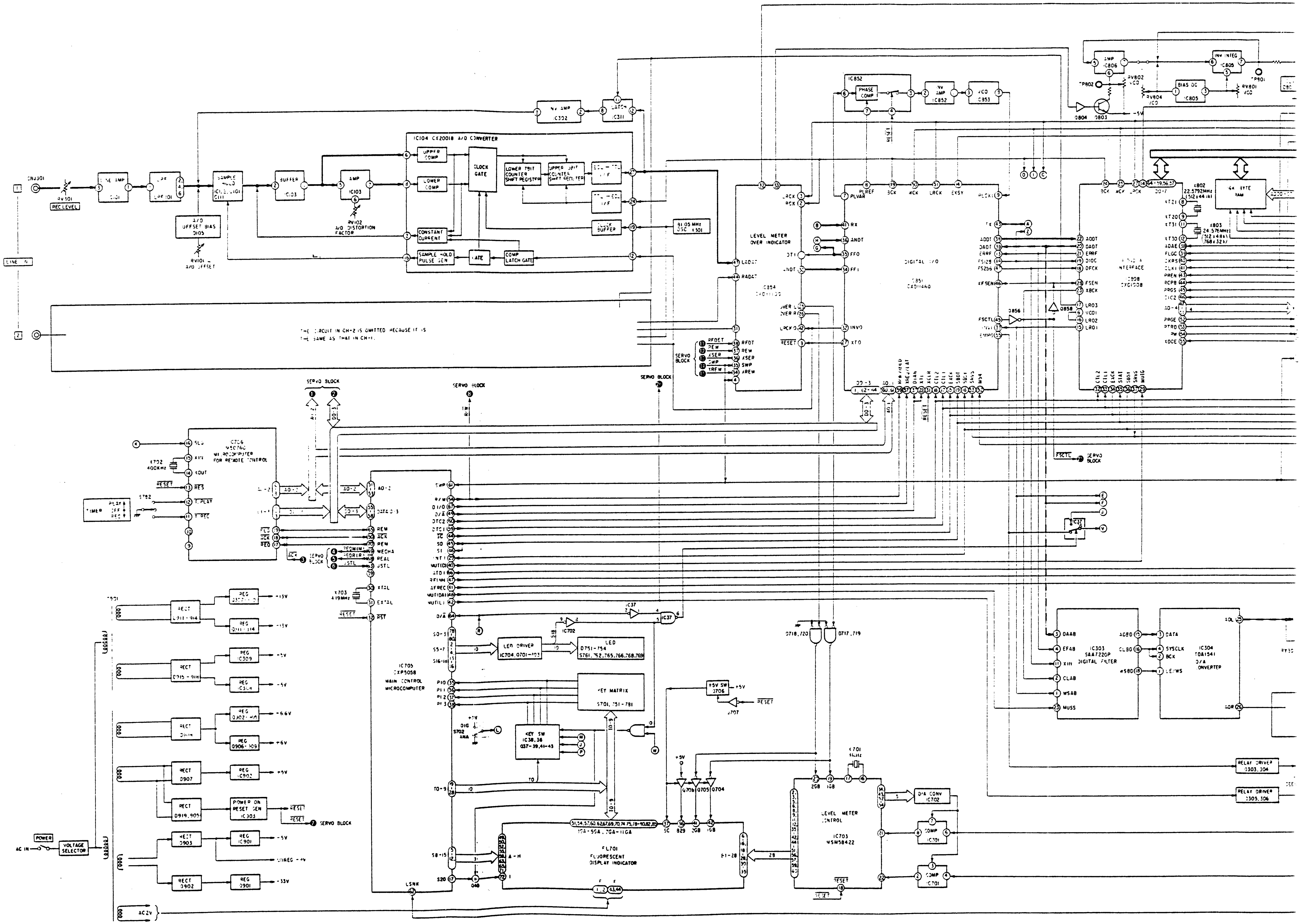
Code	Display	Description
0	0	FWD x 1
1	1	FWD x 2.5
2	2	FWD x 16
3	3	REC FWD
4	4	FF
5	5	FF SEARCH
6	6	FWD x 16 (measure)
7	7	OPEN/CLOSE
8	8	STOP
9	9	PAUSE
A	-	REV x 16 (measure)
B	b	REW
C	c	REW SEARCH
D	d	REV x 1
E	E	REV x 2.5
F	Blank	REV x 16

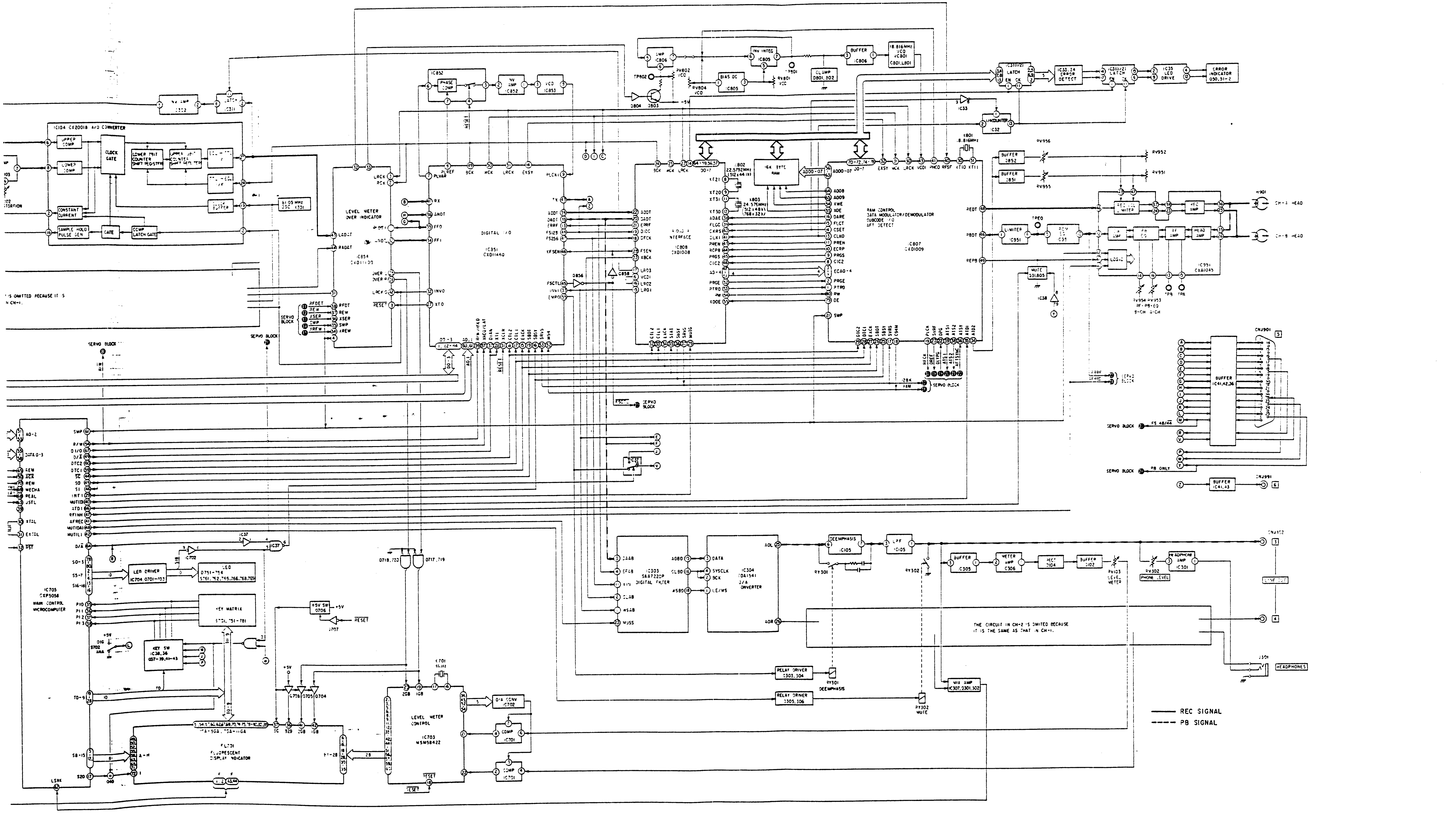
(e) Operations in the TEST mode are described below (as compared with those in the normal mode).

1. Cassette compartment is not activated.
2. Cassette is not detected.
3. CAUTION indication does not appear.

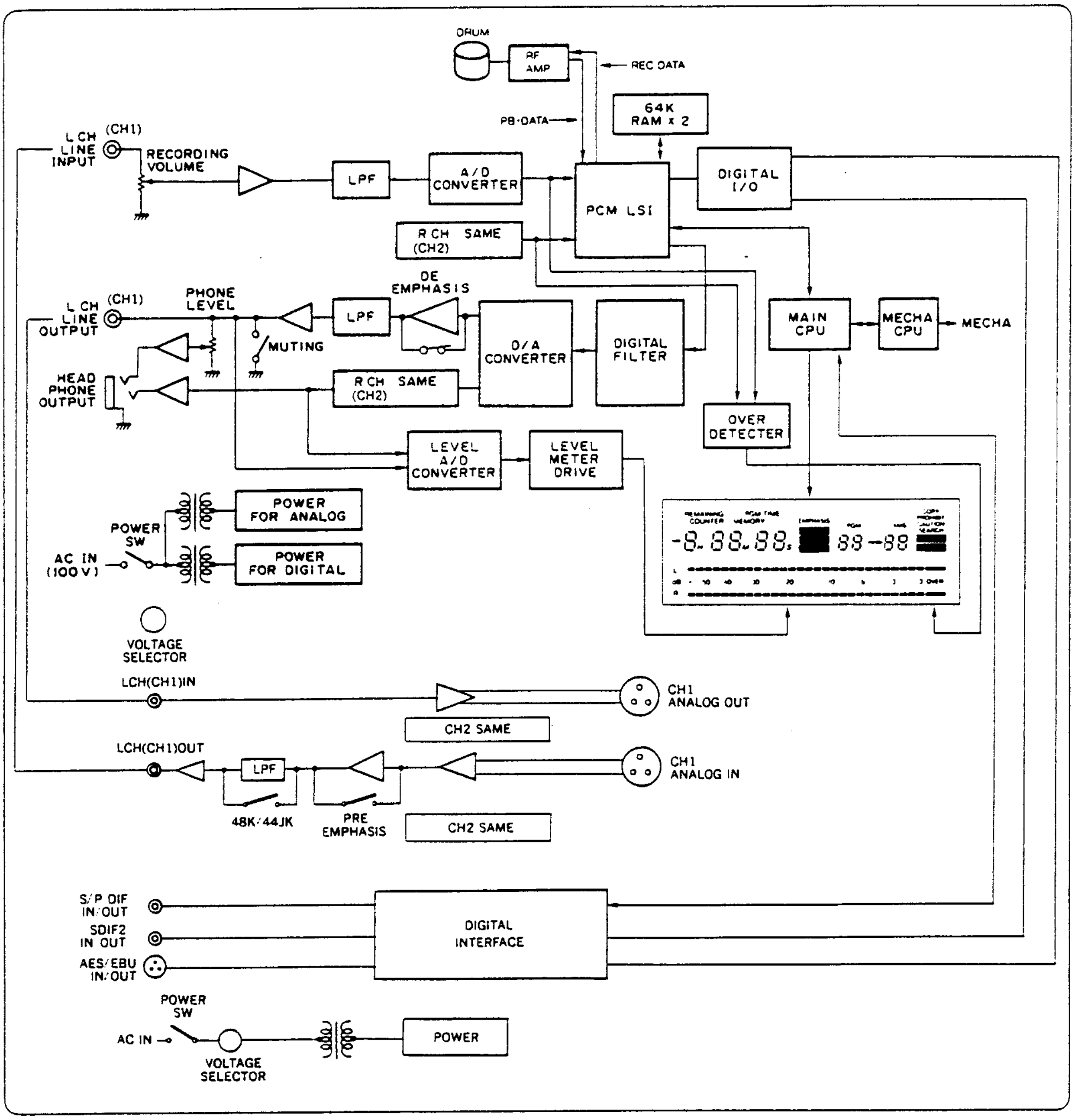
SECTION 2
BLOCK DIAGRAM

PCM-2500A (DIGITAL TAPE RECORDER)
Audio/Microcomputer


LINE IN
CNJ301
RV301
REC LEVEL
LINE AMP IC101
LPF LPF101
SAMPLE HOLD IC102, Q101 Q111
A/D OFFSET BIAS D105
RV101 A/D OFFSET
BUFFER IC103
AMP IC103
RV102 A/D DISTORTION FACTOR
IC104 CX20018 A/D CONVERTER
UPPER COMP
LOWER COMP
CLOCK GATE
LOWER 7BIT COUNTER SHIFT REGISTER
UPPER 8BIT COUNTER SHIFT REGISTER
ECL → TTL I/F
TTL → ECL I/F
CLOCK BUFFER
CONSTANT CURRENT
SAMPLE HOLD PULSE GEN
GATE
COMP LATCH GATE
81.05 MHz OSC X301
NV AMP IC302
LATCH IC311
THE CIRCUIT IN CH-2 IS OMITTED BECAUSE IT IS THE SAME AS THAT IN CH-1.
SERVO BLOCK
LEVEL METER OVER INDICATOR
IC854 CXD1130
IC852
PHASE COMP
INV AMP IC852
VCO IC853
DIGITAL I/O
IC851 CXD1146Q
PCM/VIDEO INTERFACE
IC808 CXD1008
16K BYTE RAM
X802 22.5792MHz (512×44.1k)
X803 24.576MHz (512×48k) (768×32k)
AMP IC806
INV INTEG IC805
BIAS DC IC805
RV802 VCO
RV804 VCO
RV801 VCO
TP802
TP801
Q804
Q803
Q856
Q858
FSCTL SERVO BLOCK
IC706 M50760 MICROCOMPUTER FOR REMOTE CONTROL
X702 400KHz
TIMER PLAY OFF REC
S782
IC705 CXP5058 MAIN CONTROL MICROCOMPUTER
X703 4.19MHz
LED DRIVER IC704, Q701-703
LED D751-754 S761, 752, 765, 766, 768, 769
IC702
IC37
KEY MATRIX S701, 751-781
KEY SW IC38, 36 Q37-39, 41-43
DIG S702 ANA
+5V SW Q706
Q707
Q718, 720
Q717, 719
Q706 Q705 Q704
FL701 FLUORESCENT DISPLAY INDICATOR
1GA-5GA, 7GA-11GA
Q40
LEVEL METER CONTROL
IC703 MSM58422
X701
D/A CONV IC702
COMP IC701
IC303 SAA7220P DIGITAL FILTER
IC304 TDA1541 D/A CONVERTER
RELAY DRIVER Q303, 304
RELAY DRIVER Q305, 306
T901
RECT D911-914
REG Q307-310
REG Q311-314
+15V
-15V
RECT D915-918
REG IC309
REG IC308
+5V
-5V
RECT D904
REG Q302-305
REG Q906-909
+6.6V
+6V
RECT D907
REG IC902
RECT D919, 905
POWER ON RESET GEN IC303
RESET
RESET SERVO BLOCK
RECT D903
REG IC901
UNREG +9V
RECT D902
REG Q901
-33V
AC2V
POWER
AC IN
VOLTAGE SELECTOR

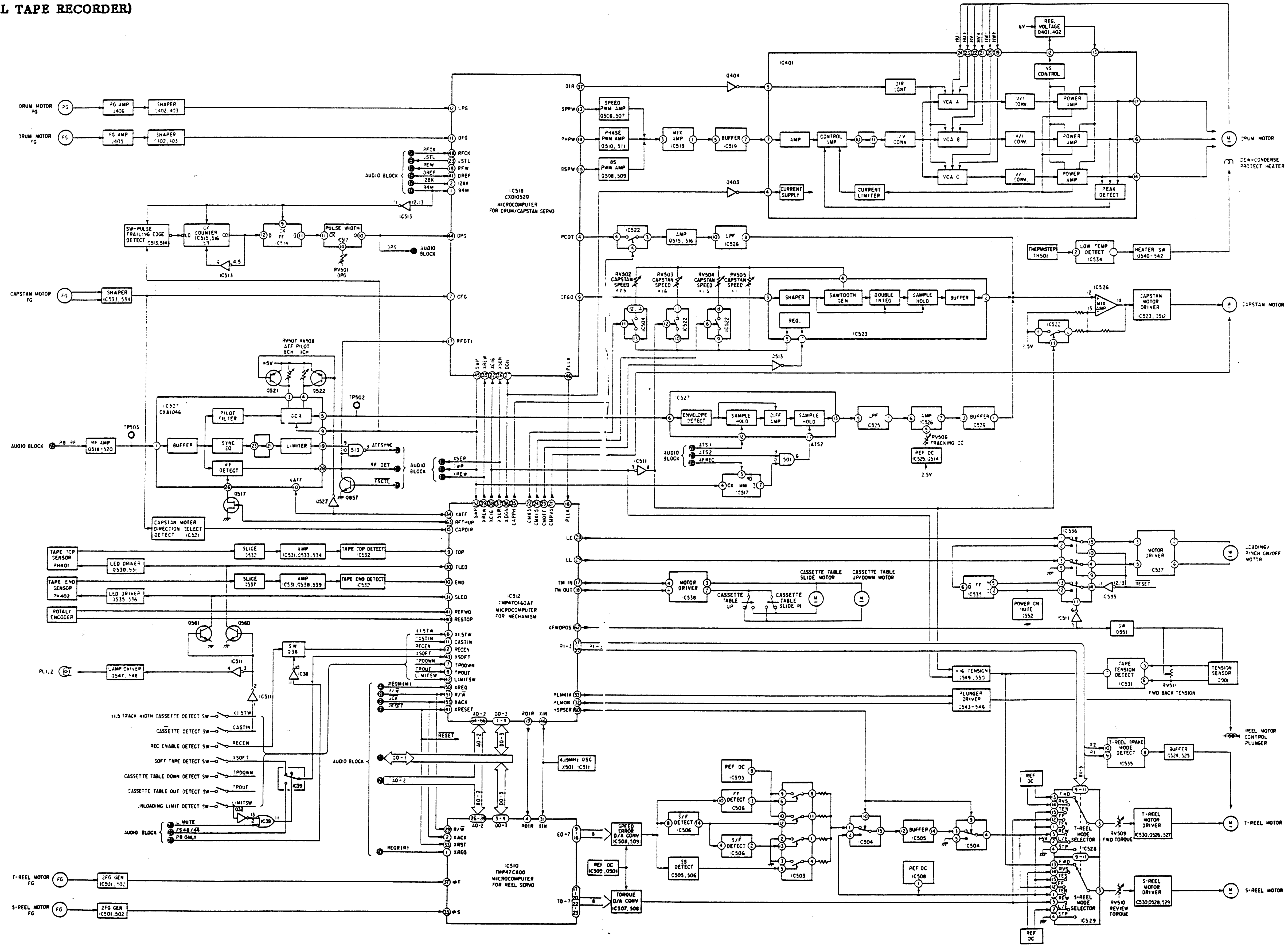

IC104 CX20018 A/D CONVERTER
UPPER COMP
LOWER COMP
CONSTANT CURRENT
SAMPLE HOLD PULSE GEN
CLOCK GATE
GATE
COMP LATCH GATE
LOWER 7BIT COUNTER SHIFT REGISTER
8105 MHz OSC X301
LEVEL METER OVER INDICATOR
IC854 CXD1140
SERVO BLOCK
PHASE COMP
IC852
VCO IC853
DIGITAL I/O
IC851 CXD1144Q
A/D D/A INTERFACE
IC808 CXD1008
16K BYTE RAM
IC802
X802 22.5792MHz
X803 24.576MHz
RAM CONTROL DATA MODULATOR/DEMODULATOR SUBCODE I/O AFT DETECT
IC807 CXD1009
INV INTEG IC805
BIAS DC IC805
BUFFER IC806
18.816MHz VCO
CLAMP D801,302
LATCH EN CK
IC33,34 ERROR DETECT
IC35 LED DRIVE
ERROR INDICATOR D50,51-2
X801 8.816MHz
BUFFER IC852
BUFFER IC851
RV952
RV951
RV956
RV955
REC AMP
HEAD AMP
LIMITER IC951
LOGIC
IC951 CXA1045
H901
CH-A HEAD
CH-B HEAD
MUTE Q31,805
IC38
RV954 RV953 RF-PB-EQ B-CH A-CH
TP9 TPA
CNJ901
BUFFER IC41,42,36
SERVO BLOCK
FS 48/44
PB ONLY
BUFFER IC41,43
CNJ991
IC705 CXP5058 MAIN CONTROL MICROCOMPUTER
LED DRIVER IC704,Q701-703
LED D751-754 S761,762,765,766,768,769
KEY MATRIX S701,751-781
KEY SW IC38,36 Q37-39,41-43
+5V SW Q706
RESET
FL701 FLUORESCENT DISPLAY INDICATOR
LEVEL METER CONTROL IC703 MSM58422
D/A CONV IC702
COMP IC701
IC303 SAA7220P DIGITAL FILTER
IC304 TDA1541 D/A CONVERTER
DEEMPHASIS IC105
LPF IC105
RY301
RY302
BUFFER C305
METER AMP C306
BUFFER
PHONE LEVEL
HEADPHONE AMP IC301
LINE OUT
HEADPHONES
RELAY DRIVER Q303,304
RY301 DEEMPHASIS
RELAY DRIVER Q305,306
RY302 MUTE
MIX AMP IC307,Q301,302
THE CIRCUIT IN CH-2 IS OMITTED BECAUSE IT IS THE SAME AS THAT IN CH-1.
IS OMITTED BECAUSE IT IS ... IN CH-1.
—— REC SIGNAL
----- PB SIGNAL

Overall


DRUM
RF AMP
REC DATA
PB·DATA
64K RAM x 2
L CH (CH1) LINE INPUT
RECORDING VOLUME
LPF
A/D CONVERTER
PCM LSI
DIGITAL I/O
R CH SAME (CH2)
DE EMPHASIS
L CH (CH1) LINE OUTPUT
PHONE LEVEL
LPF
MUTING
D/A CONVERTER
DIGITAL FILTER
MAIN CPU
MECHA CPU
MECHA
HEAD PHONE OUTPUT
R CH SAME (CH2)
OVER DETECTER
LEVEL A/D CONVERTER
LEVEL METER DRIVE
POWER FOR ANALOG
POWER SW
AC IN (100 V)
POWER FOR DIGITAL
-8.88.88s
88-88
VOLTAGE SELECTOR
LCH(CH1)IN
CH1 ANALOG OUT
CH2 SAME
LCH(CH1)OUT
LPF
48K/44JK
PRE EMPHASIS
CH2 SAME
CH1 ANALOG IN
S/P DIF IN/OUT
SDIF2 IN OUT
AES/EBU IN/OUT
DIGITAL INTERFACE
POWER SW
AC IN
VOLTAGE SELECTOR
POWER

PCM-2500A (DIGITAL TAPE RECORDER)

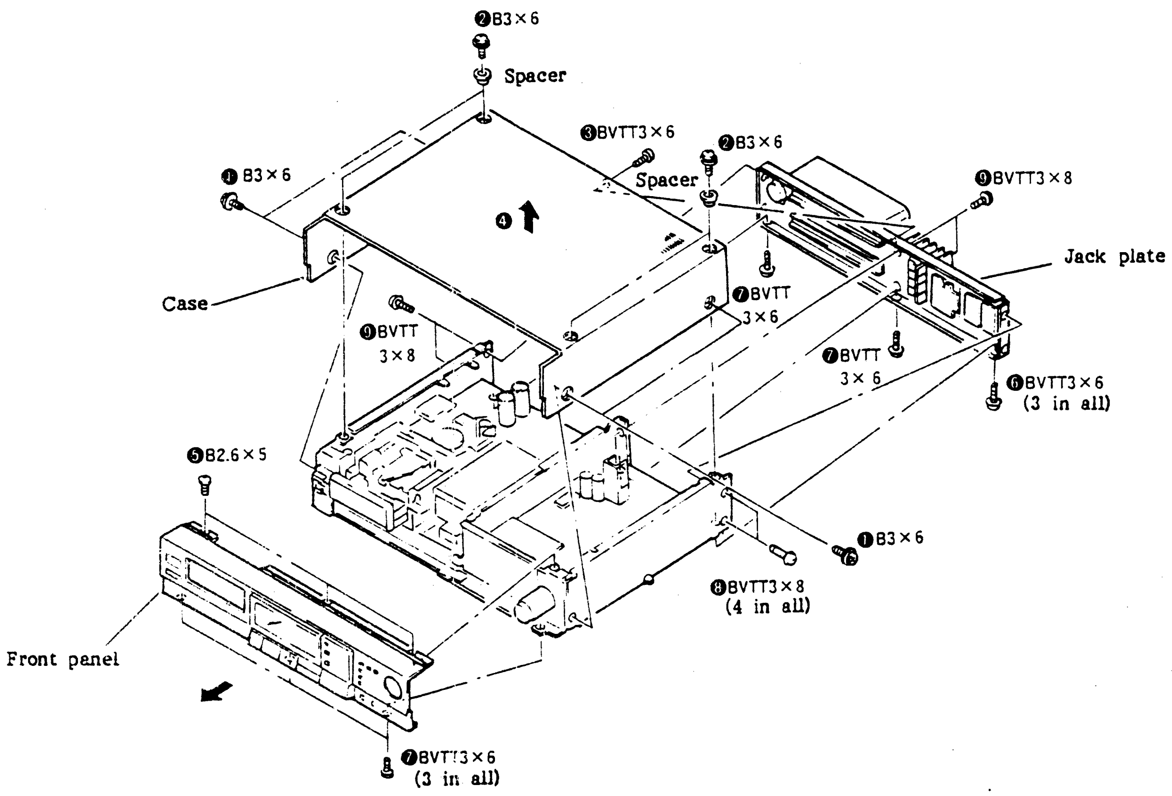
Servo


DRUM MOTOR PG
DRUM MOTOR FG
PG AMP
FG AMP
SHAPER
AUDIO BLOCK
SW-PULSE TRAILING EDGE DETECT
COUNTER
PULSE WIDTH
RV501 DPG
CAPSTAN MOTOR FG
IC518 CXD1052Q MICROCOMPUTER FOR DRUM/CAPSTAN SERVO
IC401
Q404
Q403
SPEED PWM AMP
PHASE PWM AMP
BS PWM AMP
MIX AMP IC519
BUFFER IC519
DIR CONT
CONTROL AMP
V/I CONV
VCA A
VCA B
VCA C
POWER AMP
CURRENT SUPPLY
CURRENT LIMITER
PEAK DETECT
REG. VOLTAGE Q401, 402
VS CONTROL
DRUM MOTOR
DEW-CONDENSE PROTECT HEATER
THERMISTER TH501
LOW TEMP DETECT IC534
HEATER SW Q540-542
RV502 CAPSTAN SPEED
RV503 CAPSTAN SPEED
RV504 CAPSTAN SPEED
RV505 CAPSTAN SPEED
SHAPER
SAWTOOTH GEN
DOUBLE INTEG
SAMPLE HOLD
BUFFER
REG.
IC523
IC526 MIX AMP
CAPSTAN MOTOR DRIVER IC523, 3512
CAPSTAN MOTOR
RV507 RV508 ATF PILOT
IC527 CXA1046
PILOT FILTER
VCA
BUFFER
SYNC EQ
LIMITER
RF DETECT
RF AMP
TP502
TP503
ENVELOPE DETECT
SAMPLE HOLD
DIFF AMP
SAMPLE HOLD
LPF IC525
AMP IC526
BUFFER IC526
RV506 TRACKING DC
REF DC IC529, Q514
CAPSTAN MOTOR DIRECTION SELECT DETECT IC521
TAPE TOP SENSOR PH401
TAPE END SENSOR PH402
LED DRIVER
SLICE
AMP
TAPE TOP DETECT IC532
TAPE END DETECT IC532
ROTALY ENCODER
IC512 TMP47C460AF MICROCOMPUTER FOR MECHANISM
MOTOR DRIVER IC538
CASSETTE TABLE SLIDE MOTOR
CASSETTE TABLE UP/DOWN MOTOR
CASSETTE TABLE UP
CASSETTE TABLE SLIDE IN
IC536
MOTOR DRIVER IC537
LOADING/PINCH ON/OFF MOTOR
POWER ON MUTE Q552
SW Q551
TAPE TENSION DETECT IC531
TENSION SENSOR
FWD BACK TENSION
PLUNGER DRIVER
REEL MOTOR CONTROL PLUNGER
T-REEL BRAKE MODE DETECT IC535
BUFFER Q524, 525
PL1,2
LAMP DRIVER Q547, 548
11.5 TRACK WIDTH CASSETTE DETECT SW
CASSETTE DETECT SW
REC ENABLE DETECT SW
SOFT TAPE DETECT SW
CASSETTE TABLE DOWN DETECT SW
CASSETTE TABLE OUT DETECT SW
UNLOADING LIMIT DETECT SW
4.19MHz OSC X501 IC511
IC510 TMP47C800 MICROCOMPUTER FOR REEL SERVO
SPEED ERROR D/A CONV IC508, 509
TORQUE D/A CONV IC507, 508
S/F DETECT IC506
SB DETECT Q505, 506
REF DC
FF DETECT IC506
IC503
IC504
BUFFER IC505
T-REEL MODE SELECTOR IC528
S-REEL MODE SELECTOR IC529
RV509 FWD TORQUE
RV510 REVIEW TORQUE
T-REEL MOTOR DRIVER IC530, Q526, 527
S-REEL MOTOR DRIVER IC530, Q528, 529
T-REEL MOTOR
S-REEL MOTOR
T-REEL MOTOR FG
S-REEL MOTOR FG
2FG GEN IC501, 502

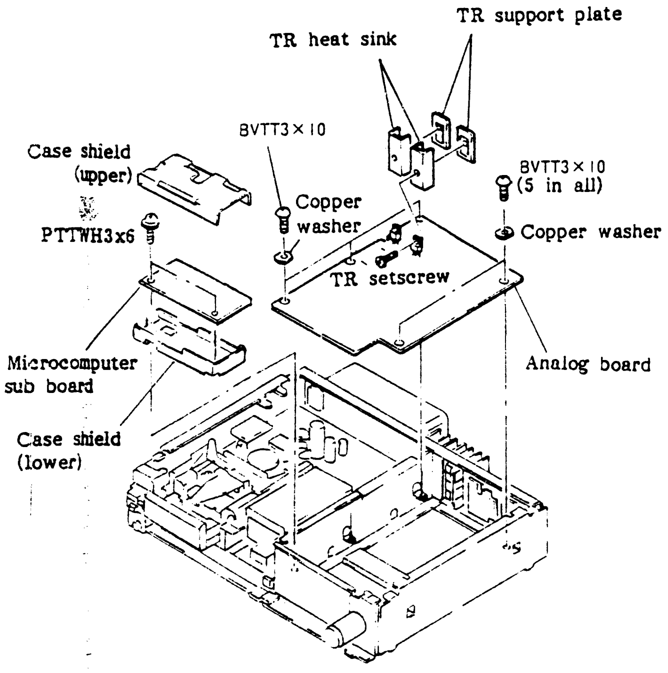
SECTION 3
DISASSEMBLY

. When numbers are assigned in the illustration, remove parts in numerical order.

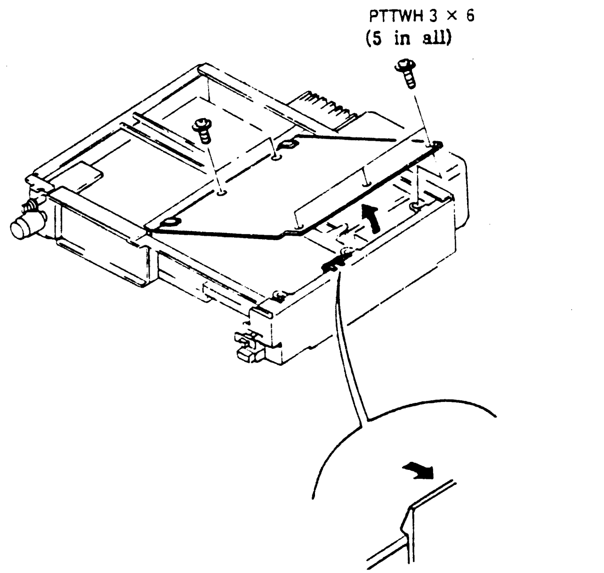
[Outer Casing (Front/Rear Case)]


❷B3×6
Spacer
❸BVTT3×6
❷B3×6
Spacer
❶ B3×6
❹
❾BVTT3×8
Jack plate
Case
❼BVTT 3×6
❾BVTT 3×8
❼BVTT 3×6
❻BVTT3×6 (3 in all)
❺B2.6×5
❶B3×6
❽BVTT3×8 (4 in all)
Front panel
❼BVTT3×6 (3 in all)

[Analog Board]


TR support plate
TR heat sink
BVTT3×10
Case shield (upper)
BVTT3×10 (5 in all)
Copper washer
Copper washer
PTTWH3x6
TR setscrew
Microcomputer sub board
Analog board
Case shield (lower)

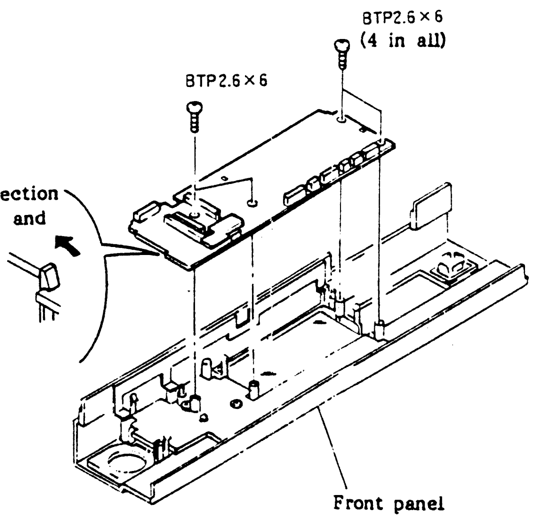
[MD Servo Board]


PTTWH 3×6 (5 in all)

Push board supporter (B) in the direction indicated by the arrow and lift the board.

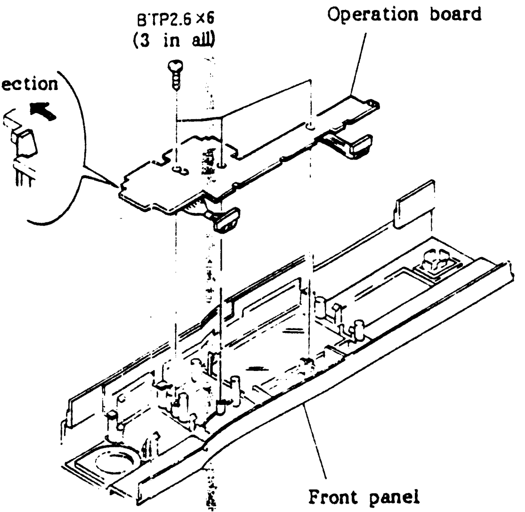
[Main Microcomputer Board]

Push the tab in the direction indicated by the arrow and remove the board (at five locations).

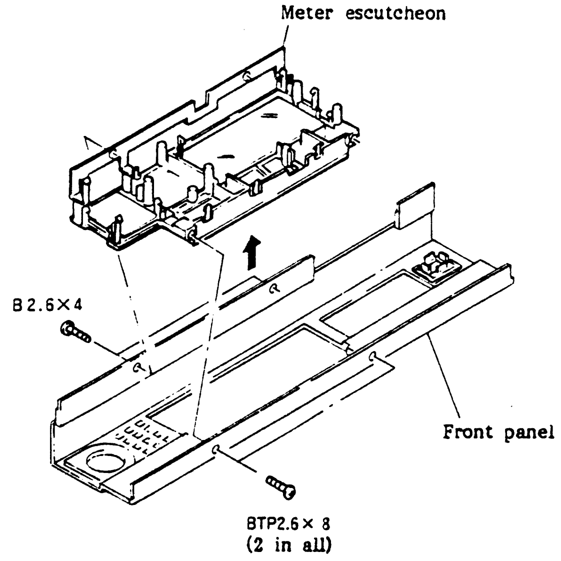

BTP2.6×6 (4 in all)
BTP2.6×6
Front panel

[Operation Board]

Push the tab in the direction indicated by the arrow and remove the board (at eight locations).

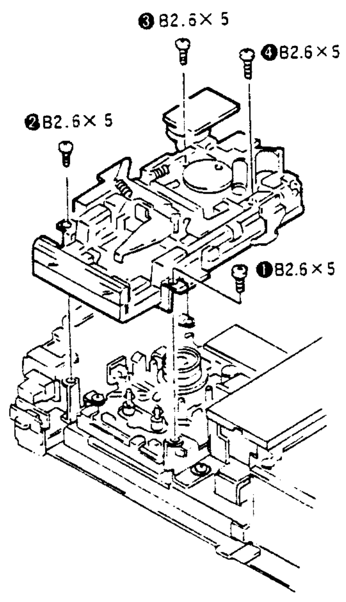

BTP2.6×6 (3 in all)
Operation board
Front panel

[Escutcheon]


Meter escutcheon
B2.6×4
Front panel
BTP2.6×8 (2 in all)

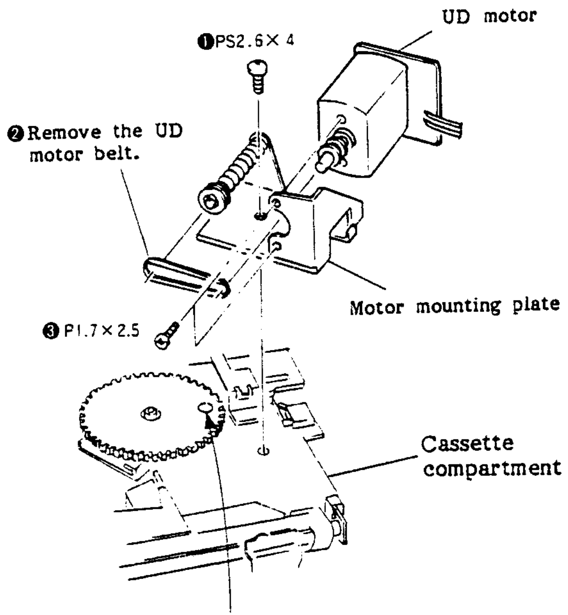
[Mechanical Block]

Note: Remove the cassette control block while it is set to OPEN.


❸B2.6×5
❹B2.6×5
❷B2.6×5
❶B2.6×5

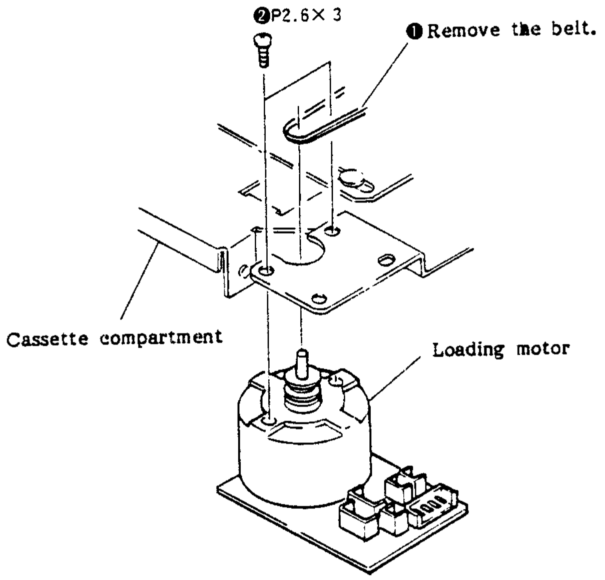
Note: The numbers in the illustration indicate the installation order. (Check a UD gear for its hole position.)

[UD Motor]

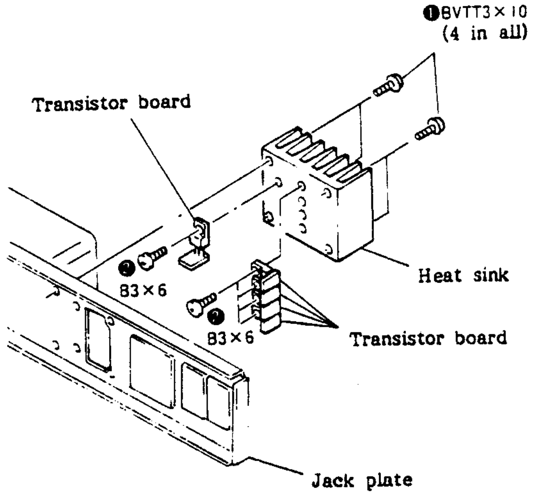

UD motor
❶PS2.6×4
❷Remove the UD motor belt.
Motor mounting plate
❸P1.7×2.5
Cassette compartment

Install the UD gear with the hole set here.

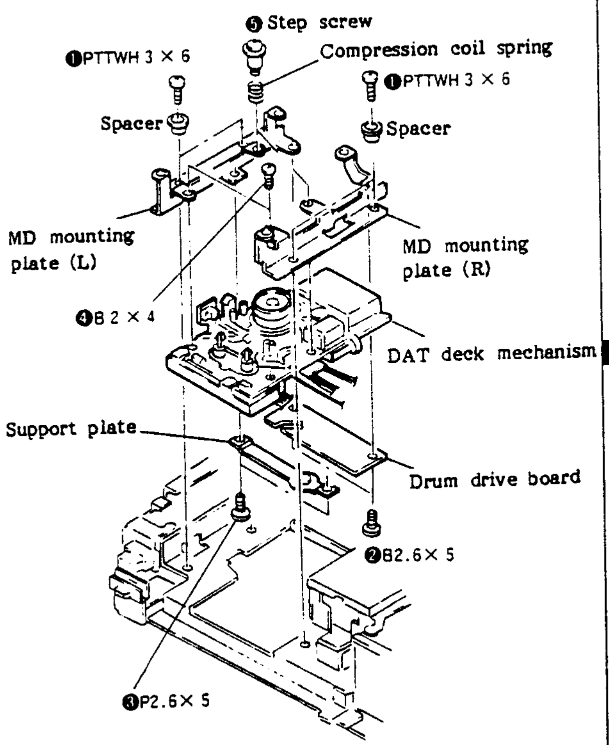
[Loading Motor]


❷P2.6×3
❶Remove the belt.
Cassette compartment
Loading motor

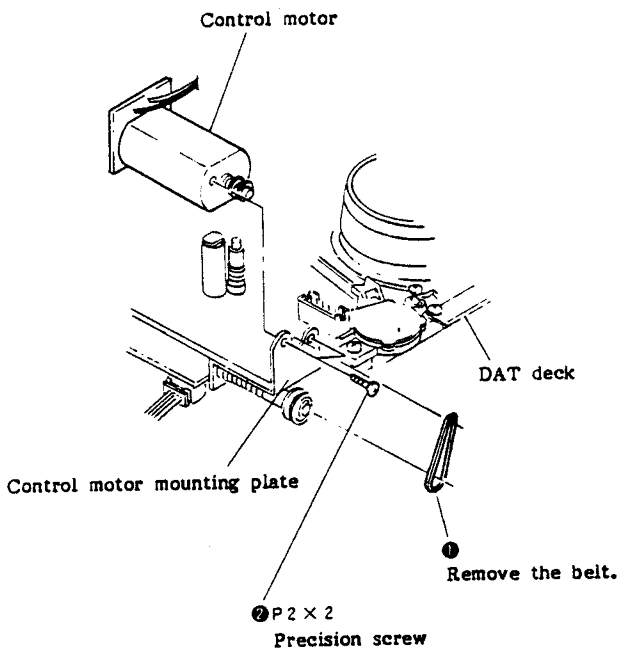
[Transistor Board]


❶BVTT3×10
(4 in all)
Transistor board
❷
B3×6
❸
B3×6
Heat sink
Transistor board
Jack plate

[DAT Mechanical Deck]


❺Step screw
Compression coil spring
❶PTTWH 3×6
❶PTTWH 3×6
Spacer
Spacer
MD mounting plate (L)
MD mounting plate (R)
❹B 2×4
DAT deck mechanism
Support plate
Drum drive board
❷B2.6×5
❸P2.6×5

[Control Motor]


Control motor
DAT deck
Control motor mounting plate
❶
Remove the belt.
❷P 2×2
Precision screw

SECTION 4
ADJUSTMENTS

(Preparations)

1. When adjustment is made, connect the PCM-2500(A) and PCM-2500(B).
2. Perform the adjustment in the order described.
3. Use the following alignment tapes:
   TY-7111 (8-909-812-00)
   TY-7251 (8-909-813-00)
   TY-7551 (8-909-814-00)
   TY-30B (8-892-358-00)
   Use the following torque meters:
   TW-7131 (8-909-708-71)
   TW-7231 (8-909-708-72)
4. Initial settings are as follows:

Timer	OFF
Skip	OFF
INPUT select	DIGITAL
REC volume	MAX
HEADPHONE volume	MIN
Counter mode	AUTO

5. The PCM-2500 cannot enter the TEST mode from PLAY mode. When the AMS button (▶▶) is pressed using a 1.5 times normal speed tape, FS (sampling frequency) indication changes to flashing 32 kHz and the set enters the FWD mode. When the AMS button (◀◀) is pressed, it enters the REV mode. When the former button is pressed using a normal speed tape, the set enters the FWD x 16 mode. When the latter button is pressed, it enters the REV x 16 mode.

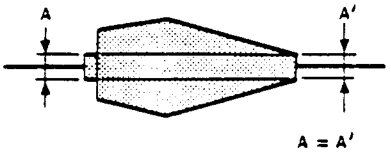
4-1. MECHANICAL ADJUSTMENT

When the drum related block is replaced, finely adjust the tape path (in 1.5 times normal speed FWD mode).

4-1-1. T2 Guide Adjustment

Adjustment

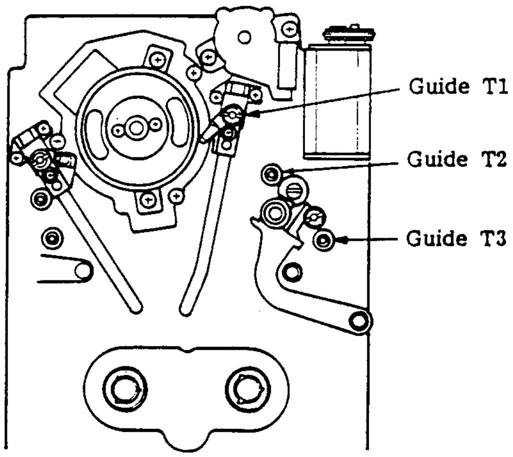
1. Connect CH-1 of an oscilloscope to pin 1 (RF) of CNT52 and CH-2 of an oscilloscope to pin 6 (SWP) of CNT51.
2. Turn on the power switch, insert alignment tape TY-7251 (8-909-813-00), and put the set into the TEST mode.
   Press the AMS button, then press the PLAY (▶) button.
3. Raise guide T1 so that the RF signal waveform is as shown below.



4. Raise guide T2 and align it with the lower edge of the tape.
5. Lower guide T1 so that the RF signal waveform is normal.
6. Check that the tape is aligned with the lower edge of guide T3.
   If it is not, repeat Step 4.

Adjustment Point

Mechanism assembly



4-1-2. S2 Guide Adjustment

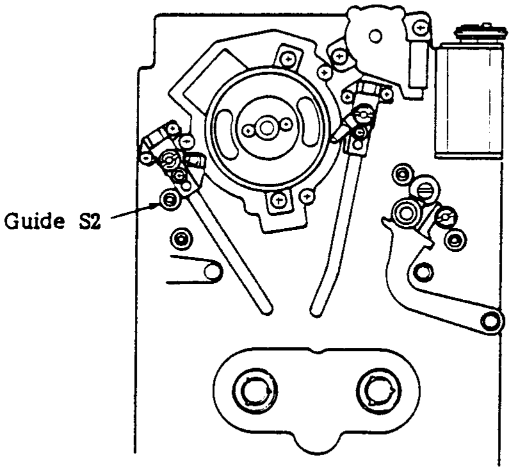
Adjustment

1. Turn on the power switch, insert blank tape TY-30B (8-892-358-00), and put the set into the PLAY (▶) mode.
2. Raise guide S2 and align it with the lower edge of the tape.

Note: Check that no curl occurs at guide S2 in the REW (◀◀) mode.

Adjustment Point

Mechanism assembly



4-1-3. F Guide Adjustment

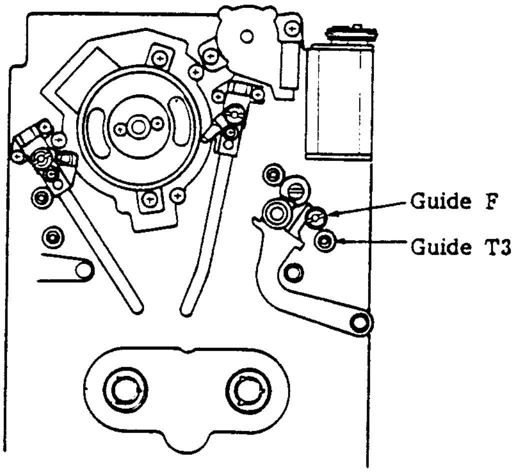
Adjustment

1. Turn on the power switch, insert blank tape TY-30B (8-892-358-00), and put the set into the PLAY (▶) mode.
2. Align guide F with the lower edge of the tape.

Note: Check that the tape is aligned with the lower edge of guide T3 and is not curled.

Adjustment Point

Mechanism assembly



4-1-4. S3 Guide Adjustment

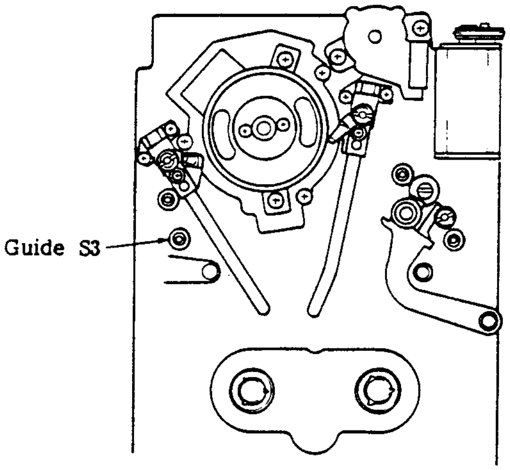
Adjustment

1. Turn on the power switch, insert blank tape TY-30B (8-892-358-00), and put the set into the PLAY (▶) mode.
2. Align guide S3 with the lower edge of the tape.

Note: Check that the tape is aligned with the lower edge of guide S3 and is not curled.

Adjustment Point

Mechanism assembly



4-1-5. T3 Guide Adjustment

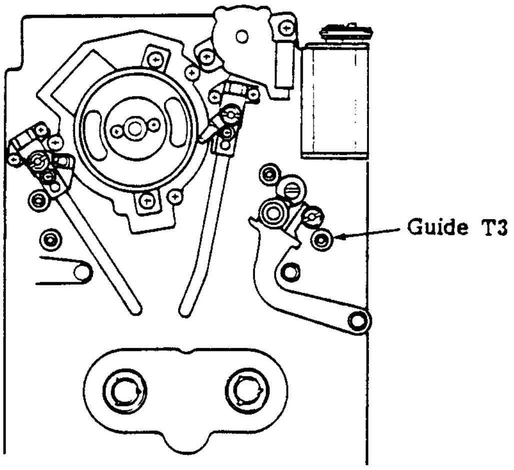
Adjustment

1. Turn on the power switch, insert blank tape TY-30B (8-892-358-00), and put the set into the PLAY (▶) mode.
2. Align guide T3 with the lower edge of the tape.

Note: Check that the tape is aligned with the lower edge of guide T3 and is not curled.

Adjustment Point

Mechanism assembly



4-2. ELECTRICAL ADJUSTMENT

4-2-1. FF/REW Torque Adjustment

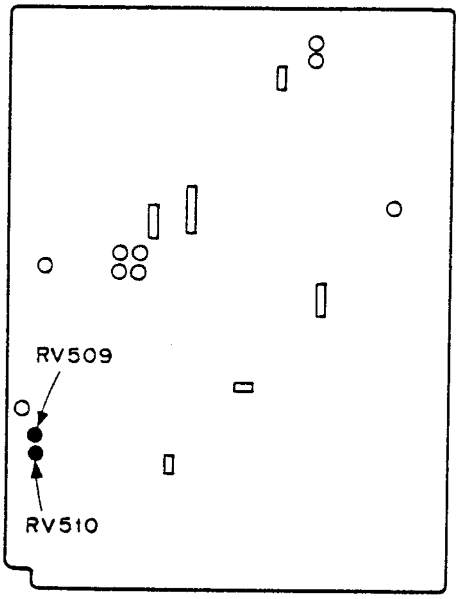
Adjustment

1. Turn on the power switch and insert FF/REW torque meter TW-7231.
2. Put the set into the TEST mode.
3. Put the set into the FF (▶▶) and REW (◀◀) modes and check that the torque is 17 to 18 gcm.
   If it is not, adjust RV509 (FF mode) and RV510 (REW mode).
4. After adjustment is completed, cancel the TEST mode.

Note: Be sure to adjust the torque in the following order:
(1) FF torque
(2) REW torque
(3) FWD back tension

Adjustment Point

MD servo board (component side)



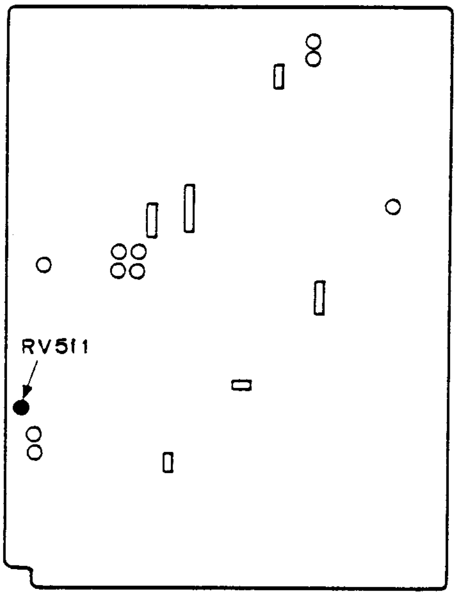
4-2-2. FWD Back Tension Adjustment

Adjustment

1. Turn on the power switch and insert FWD torque meter TW-7131.
2. Put the set into the TEST mode.
3. Put the set into the FWD (▶) mode.
4. Adjust RV511 so that the back tension (at the supply side) is 3 to 4 gcm.
5. Check the torque meter reading while it makes one cycle.
6. After adjustment is completed, cancel the TEST mode.

Adjustment Point

MD servo board (component side)



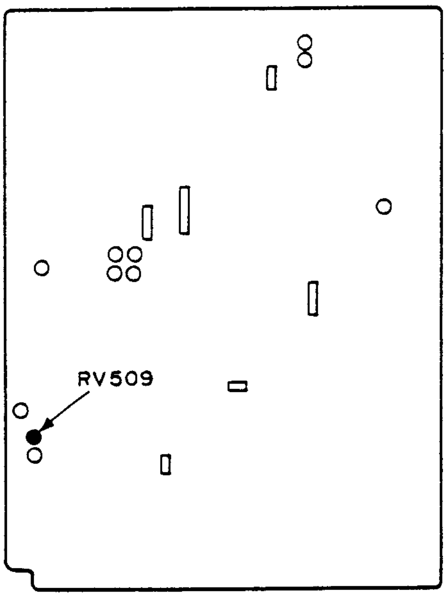
4-2-3. FWD Torque Check

Adjustment

1. Turn on the power switch and insert FWD torque meter TW-7131.
2. Put the set into the TEST mode.
3. Put the set into the PLAY (▶) mode.
4. Check that the FWD torque (take-up rewinding torque) is 10 to 14 gcm.
5. Check the torque meter reading while it makes one cycle.
6. If the torque is not 10 to 14 gcm, readjust the FF torque.
7. After adjustment is completed, cancel the TEST mode.

Adjustment Point

MD servo board (component side)

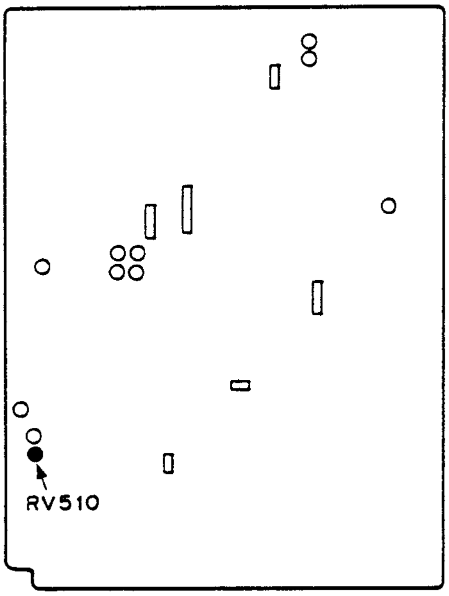


4-2-4. REVIEW Torque Check

1. Turn on the power switch and insert FWD torque meter TW-7131.
2. Put the set into the TEST mode.
3. Put the set into the REVIEW (▶ + ◀◀) mode.
   (Press the REW (◀◀) button continuously in the FWD mode.)
4. Check that the rewinding torque at the supply side is 14 to 18 gcm.
5. If the torque is not 14 to 18 gcm, readjust the REW torque.
6. After adjustment is completed, cancel the TEST mode.

Adjustment Point

MD servo board (component side)



4-2-5. Tracking Voltage Adjustment

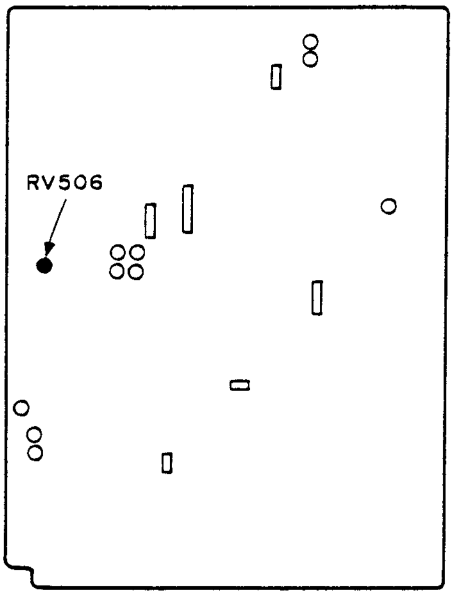
Adjustment

1. Connect a digital tester between pin 7 of IC525 and pin 1 of IC526.
2. Turn on the power switch, insert blank tape TY-30B, and put the set into the STOP (■) mode.
3. Adjust RV506 so that the tester reading is 0 ± 2 mV.

Note: When performing this adjustment, be sure to adjust the capstan speed at x1, x1.5, x2.5, and x16.

Adjustment Point

MD servo board (component side)



4-2-6. Capstan Speed Adjustment (x 1)

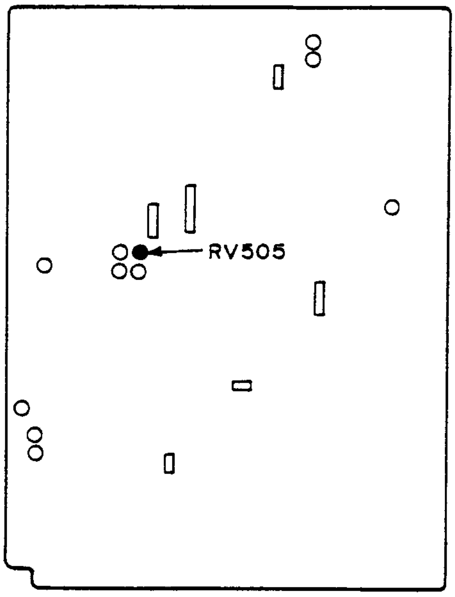
Adjustment

1. Connect a frequency counter to pin 3 (CFG) of CNT53.
2. Turn on the power switch, insert blank tape TY-30B, and put the set into the PLAY (▶) mode.
3. Adjust RV505 so that the frequency counter reading is 676 ± 1 Hz.

Note: When performing this adjustment, be sure to adjust the capstan speed at x1.5, x2.5, and x16.

Adjustment Point

MD servo board (component side)

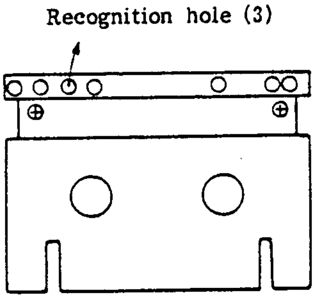


4-2-7. Capstan Speed Adjustment (x 1.5)

Adjustment

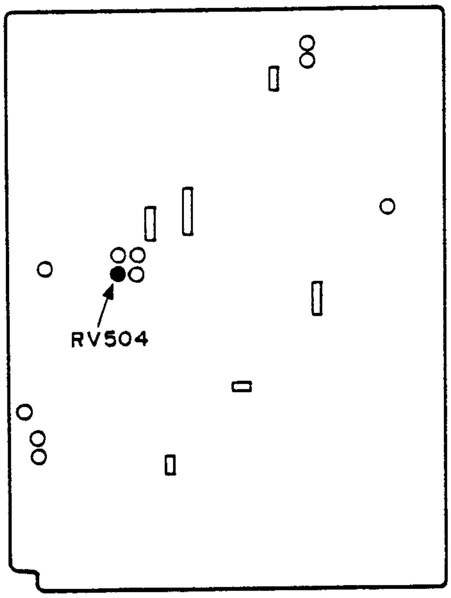
1. Connect a frequency counter to pin 3 (CFG) of CNT53.
2. Turn on the power switch, insert blank tape TY-30B (for 1.5 times normal speed), and put the set into the PLAY (▶) mode.
3. Adjust RV504 so that the frequency counter reading is 1014 ± 2 Hz.

Note: When recognition hole (3) of blank tape TY-30B is opened, the set is into the 1.5 times normal speed mode. When the hole is blocked using an adhesive tape, the mode is changed from 1.5 times normal speed to normal speed (x1).



Adjustment Point

MD servo board (component side)



4-2-8. Capstan Speed Adjustment (x 2.5)

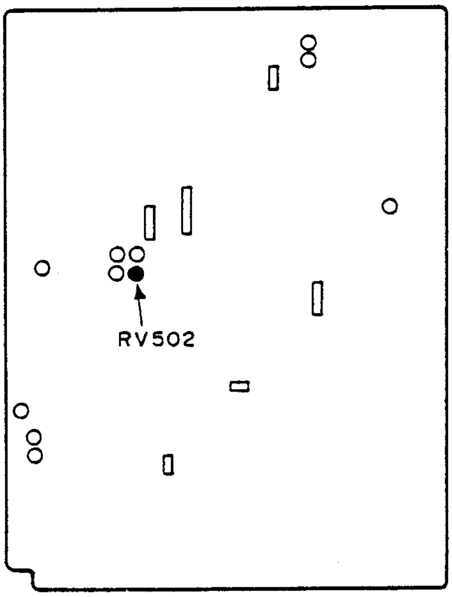
Adjustment

1. Connect a frequency counter to pin 3 (CFG) of CNT53.
2. Turn on the power switch, insert blank tape TY-30B, and put the set into the CUE (▶ + ▶▶) mode.
   Press the FF (▶▶) button continuously in the FWD mode.
3. Adjust RV502 so that the frequency counter reading is 1685 ± 20 Hz.

Note: This adjustment can be made independently.

Adjustment Point

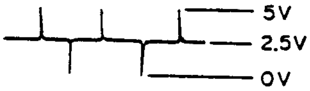
MD servo board (component side)



4-2-9. Capstan Speed adjustment (x 16)

Adjustment

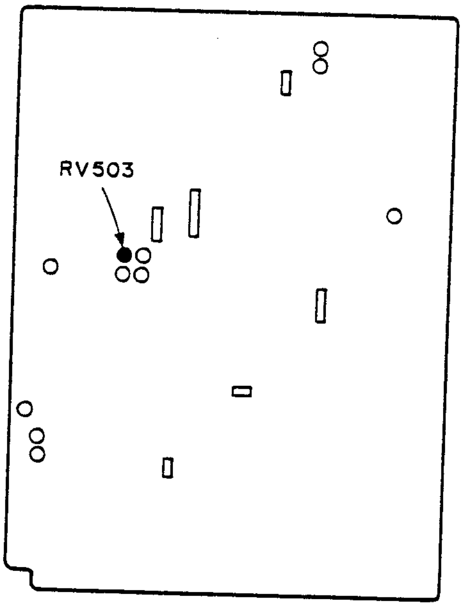
1. Connect an oscilloscope to pin 2 (PCOT) of CNT55.
2. Turn on the power switch, insert blank tape TY-30B, and press the FF (▶▶) or REW (◀◀) button (press the FF or REW button for every one or two seconds to obtain the capstan speed at 16 times normal speed).
3. Adjust RV503 so that the signal waveform on the oscilloscope is as shown below.



Note: This adjustment can be made independently.

Adjustment Point

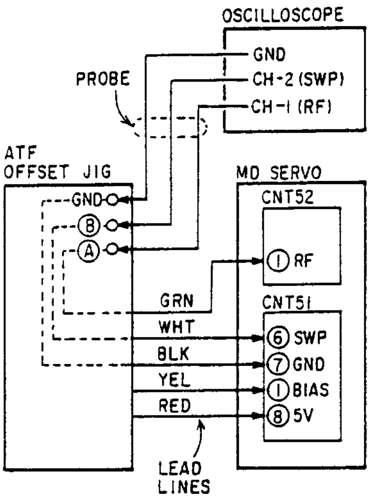
MD servo board (component side)



4-2-10. Tape Path Fine-Adjustment (x 1.5 FWD Mode)

Adjustment

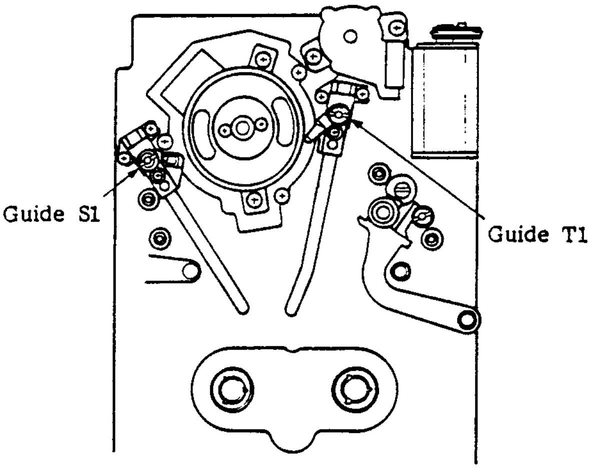
1. Connect CH-1 of an oscilloscope to pin Ⓐ of the offset jig.
   Connect CH-2 of an oscilloscope to pin Ⓑ of the offset jig.
2. Connect a 3.3 k-ohm resistor between pins 3 (GAIN 2) and 4 (GAIN 1) of CNT51.
3. Connect an offset jig to CNT51 and CNT52.

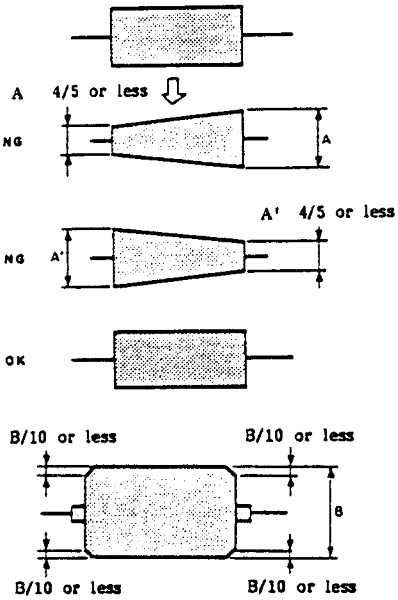

OSCILLOSCOPE
GND
CH-2 (SWP)
CH-1 (RF)
PROBE
ATF OFFSET JIG
GND
Ⓑ
Ⓐ
MD SERVO
CNT52
① RF
CNT51
GRN
WHT
BLK
YEL
RED
⑥ SWP
⑦ GND
① BIAS
⑧ 5V
LEAD LINES

4. Turn on the power switch, insert alignment tape TY-7251, and put the set into the TEST mode.
5. Press the AMS button, then press the PLAY (▶) button.
6. Remove the lead wires (YEL and RED) of the offset jig and adjust guides S1 and T1 so that the shape of an RF signal waveform on the oscilloscope is close to a square when the offset jig volume control is turned. (Turn the ATF control carefully so that the waveform varies slowly.)
7. Connect the lead wires (YEL and RED) of the offset jig, turn the offset jig volume control, and fix the RF signal waveform to a 1/2 level. Finely adjust guides S1 and T1 again so that the shape of the RF signal waveform is close to a square.
8. Turn the offset jig volume control, change the RF signal waveform slowly in the vertical direction, and check that it evenly changes in the horizontal direction.
9. Remove the two leads (YEL and RED) of the jig from CNT51.
   (1) Check that peak value (B) of the RF signal waveform is 60 mV or more.
   (2) Check that the undershoot level of the RF signal waveform's flat portion is within 10%.
10. If the specification is not satisfied, repeat Steps 3 through 9.
    Note: Make this adjustment when replacing the drum.

Adjustment Point

Mechanical guides T1 and S1


Guide S1
Guide T1


A 4/5 or less
NG
A
A' 4/5 or less
NG
A'
OK
B/10 or less
B/10 or less
B
B/10 or less
B/10 or less

4-2-11. DPG Adjustment

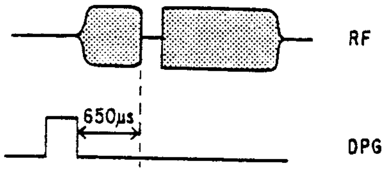
Adjustment

1. Connect CH-1 of an oscilloscope to pin 1 (RF) of CNT52 and CH-2 of an oscilloscope to pin 5 (DPG) of CNT56.
2. Select tap pattern 8 and make a solder bridge to check the original delay value of a PG pulse. (The delay time for one DPG SW code is about 100µsec.)
3. Turn on the power switch, insert alignment tape TY-7251, and put the set into the TEST mode.
4. Press the AMS button, then press the PLAY (▶) button.
5. Select the tap pattern and adjust so that it satisfies the specified value (for approximate adjustment).
6. Put the set into the PLAY (▶) mode and finely adjust the DPG pulse width using RV501 so that the waveform between the oscilloscope's DPG and RF signals is 650 ± 15 usec.

Notes:

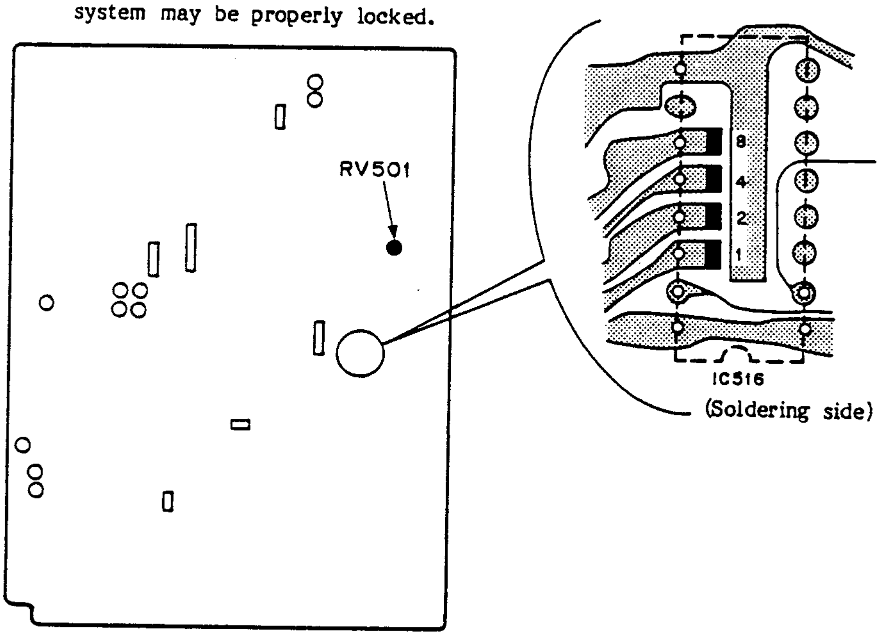
- When the drum related block is replaced, remove the former solder bridges from the DPG tap pattern on the MD servo board.
- Press the AMS button before the PLAY button is pressed so that the ATF servo system may be properly locked.

(Reference)



Adjustment Point

MD servo board (component side)

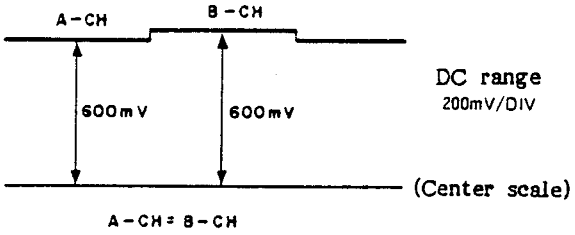


DPG SW codes	Tap pattern 1	Tap pattern 2	Tap pattern 4	Tap pattern 8
1	○			
2		○		
3	○	○		
4			○	
5	○		○	
6		○	○	
7	○	○	○	
8				○
9	○			○
A		○		○
B	○	○		○
C			○	○
D	○		○	○
E		○	○	○
F	○	○	○	○

4-2-12. ATF Pilot Adjustment

Adjustment

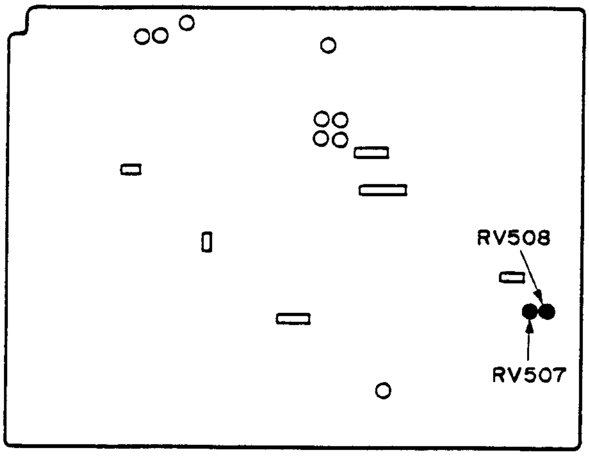
1. Connect CH-1 of an oscilloscope to pin 3 (S/H3) of CNT52.
   Connect CH-2 of an oscilloscope to pin 6 (SWP) of CNT51 (TRIGGER).
2. Turn on the power switch, insert alignment tape TY-7111, and put the set into the STOP (■) moode.
   Set the TEST mode to ON.
3. Adjust so that the luminescent spot is located on the scale center.
   (Never align the spot with the center when the input is set to GND.)
4. Put the set into the PLAY (▶) mode and adjust RV508 (A-CH) and RV507 (B-CH) so that the signal waveform is 600 mV after two or three seconds.



Note: If the signal waveform deflects vertically, adjust it in the deflection center.

Adjustment Point

MD servo board (component side)



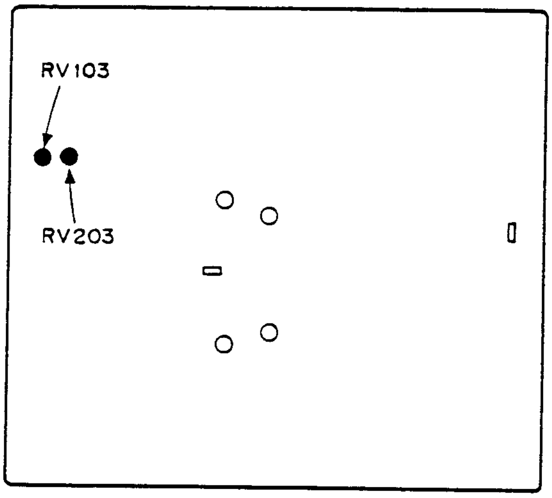
4-2-13. Level Meter Adjustment

Adjustment

1. Set the INPUT select switch to ANALOG and input a 1 kHz signal (-6dB) from the oscillator.
2. Turn on the power switch, insert blank tape TY-30B, and put the set into the REC MUTE mode.
3. Check the setting of the REC volume control.
4. Adjust RV103 (R-CH) and RV203 (L-CH) so that the level meter reads -6dB.

Adjustment Point

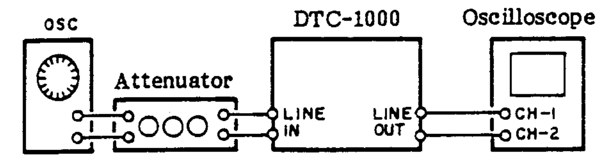
Audio board (component side)



4-2-14. A/D Distortion Factor Adjustment

Adjustment

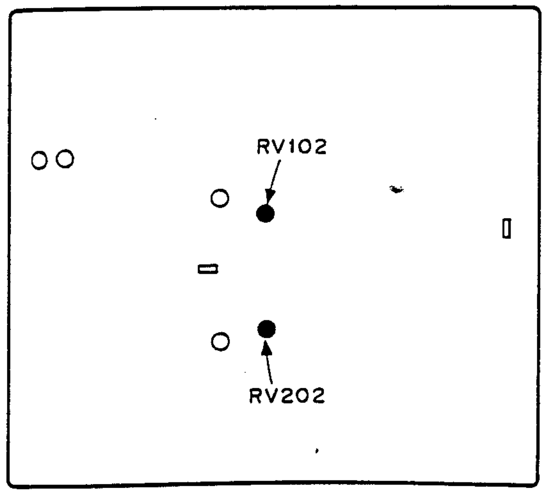
1. Set the INPUT select switch to ANALOG and input a 1 kHz signal (0dB) from the oscillator through an attenuator.
2. Connect an oscilloscope to the LINE OUT terminal.
3. Turn on the power switch, insert blank tape TY-30B, and put the set into the REC MUTE mode.
4. Turn the REC volume control until the "OVER" indicator lights, then attenuate the input signal by 1.5dB using an attenuator.
5. Adjust RV102 (R-CH) and RV202 (L-CH) so that the signal at the LINE OUT terminal is minimized.



Reference value: -84.5dB or less (20kHz LPF ON)

Adjustment Point

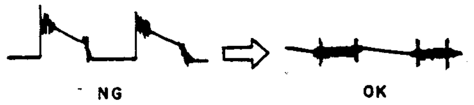
Audio board (component side)



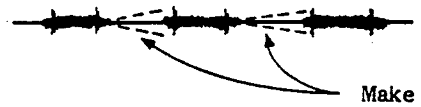
4-2-15. VCO Adjustment

Adjustment

1. Unsolder tap pattern Ⓐ on the digital board and open it.
2. Connect CH-1 of an oscilloscope to TP801 (on the digital board) and CH-2 of an oscilloscope to TP802 (on the digital board).
3. Turn on the power switch, insert a recorded tape, put the set into the TEST mode, and then put the set into the PLAY mode. (In this case, use a recorded tape.)
4. Adjust RV802 so that the DC voltage difference of C819 is approximately -3.0 V.
5. Adjust RV801 so that the signal waveform at TP801 satisfies the specification.

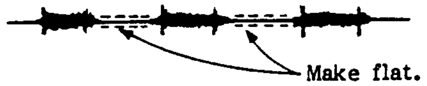


6. Adjust RV804 so that the signal waveform at TP801 satisfies the specification.



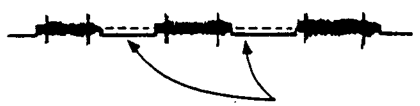
Make flat.

7. Put the set into the CUE mode and finely adjust RV801 so that the signal waveform at TP801 satisfies the specification. (The specified waveform is the same as in Step 6.)
8. Put the set into the REVIEW mode and finely adjust RV801 so that the signal waveform at TP801 satisfies the specification. (The specified waveform is the same as in Step 6.)
9. Alternate putting the set into the CUE and REVIEW modes two or three times and check that the signal waveform at TP801 satisfies the specification. (The specified waveform is the same as in Step 6.)
10. Turn off the power switch and solder-bridge the tap pattern.
11. Turn on the power switch and put the set into the PLAY (▶) mode again.
12. Readjust RV802 so that the signal waveform at TP801 satisfies the specification. (The specified waveform is the same as in Step 6.)
13. Put the set into the CUE mode and finely adjust RV802 so that the signal waveform at TP801 satisfies the specification.



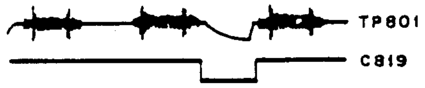
Make flat.

14. Put the set into the REVIEW mode and check the signal waveforms at TP801.

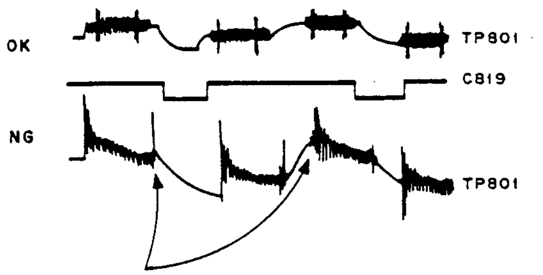


Should be decreased 0.3 V in the REVIEW mode and 0.1 V in the PLAY mode.

15. Put the set into the PLAY mode and check the signal waveform at TP801. (The specified waveform is the same as in Step 6.)
16. Put the set into the FF AMS and REW AMS modes and check the signal waveforms at TP801 and C819 (in the 16 times normal speed mode).

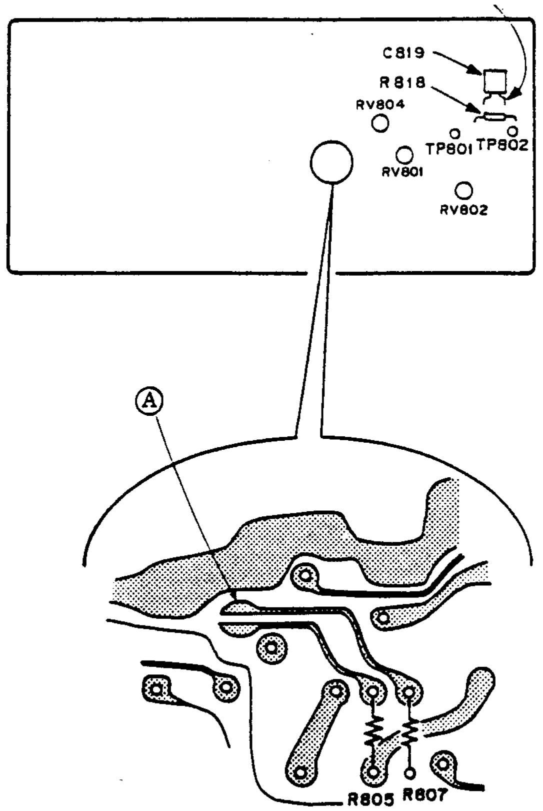


17. Set the TEST mode to OFF, put the set into the FF AMS and REW AMS modes, and check the signal waveforms at TP801 and C819 (in the AMS mode).



Voltages deflect significantly in the plus (+) direction.

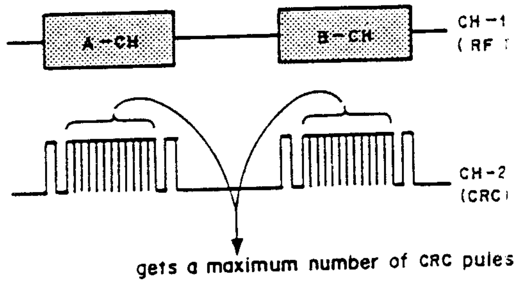
Connected to oscilloscope.



4-2-16. RF-PB EQ Adjustment

Procedure

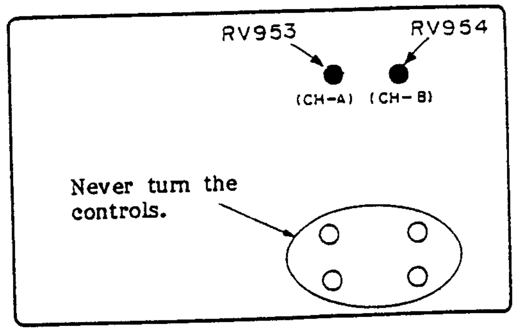
1. Connect CH-1 of an oscilloscope to pin 1 (RF) of CNT52 and CH-2 of an oscilloscope to pin 4 (CRC) of CN581.
   Connect EXT SYNC. of an oscilloscope to pin 6 (SWP) of CNT51. (TRIGER)
2. Turn on the power switch, insert alignment tape TY-7551, and put the set into the test mode.
3. Press the PLAY ( ) button and adjust RV953 (A-CH), RV954 (B-CH) so that the "H" level of CRC pulse is observed as much as possible.



* The CRC pulse may not be easy to observec, so Adjust RV953 and RV954 to get the middle of the RF noise. (RF noise varies depending on the RV953, 954 position)

Adjustment Point

RF amplifier board (component side)



4-2-17. A/D Offset Adjustment

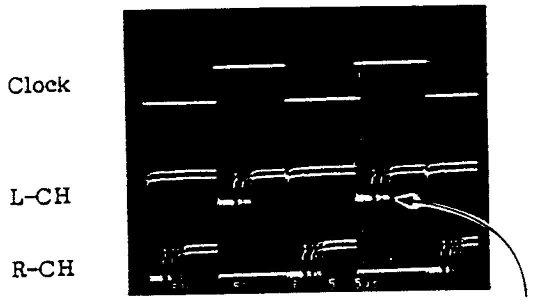
Adjustment

1. Remove CN300 on the audio board.
2. Connect pin 2 of CN182, pin 1 of CN184, and pin 1 of CN182 (EXT SYNC) to an oscilloscope.
3. Turn on the POWER switch and set the REC volume control to the minimum position.
4. Adjust RV101 (L-CH) and RV201 (R-CH) so that the waveforms shown in Photos 1 and 2 are obtained.
5. After adjustment is completed, connect CN300 again.

Adjustment Point

Audio board (component side)

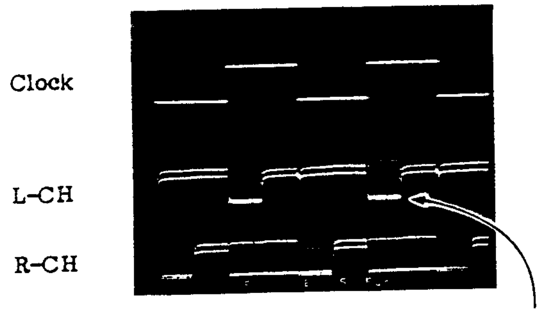
Defective offset adjustment



Make adjustment referring to this waveform.

Photo 1

Normal offset adjustment

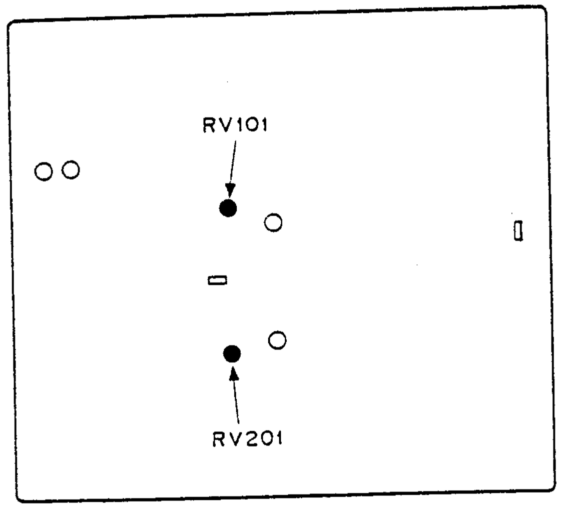


This waveform level can be selected to "H" and "L".

Photo 2

Adjustment Point

Audio board (component side)



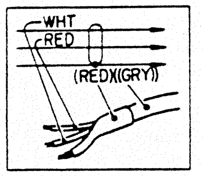
SECTION 5
DIAGRAMS

. **Semiconductor Location**

Ref. No.		Ref. No.		Ref. No.		Ref. No.	
D001	B-6	IC043	B-34	IC853	I-29	Q532	H-12
D031	I-35	IC401	G-3	IC854	I-30	Q533	H-12
D032	I-32	IC402	F-3	IC951	C-23	Q534	H-12
D033	H-34	IC403	D-4	Q031	H-34	Q535	J-11
D034	H-34	IC501	F-20	Q032	J-34	Q536	J-11
D035	I-34	IC502	G-20	Q036	H-34	Q537	J-12
D036	H-34	IC503	H-20	Q037	H-34	Q538	J-12
D037	I-34	IC504	H-20	Q038	I-34	Q539	J-12
D038	I-34	IC505	I-19	Q039	I-34	Q540	E-12
D039	I-34	IC506	I-19	Q040	I-34	Q541	E-12
D040	I-34	IC507	I-18	Q041	I-34	Q542	D-12
D041	I-34	IC508	J-19	Q042	I-34	Q543	I-13
D042	I-34	IC509	J-18	Q043	I-34	Q544	J-13
D043	I-34	IC510	H-18	Q401	H-2	Q545	I-12
D044	I-34	IC511	E-16	Q402	H-2	Q546	I-13
D045	I-35	IC512	G-14	Q403	G-2	Q547	I-13
D046	I-36	IC513	D-16	Q404	G-2	Q548	I-13
D047	H-35	IC514	C-15	Q405	D-2	Q549	E-17
D048	H-35	IC515	D-16	Q406	E-3	Q550	E-16
D050	K-34	IC516	D-15	Q501	J-20	Q551	G-13
D051	K-34	IC517	C-16	Q502	E-14	Q552	E-14
D052	B-33	IC518	E-17	Q503	E-15	Q560	F-14
D053	B-34	IC519	D-18	Q504	E-15	Q561	F-14
D401	E-4	IC520	D-19	Q505	E-15	Q803	D-31
D402	E-4	IC521	I-14	Q506	F-18	Q804	C-31
D501	H-20	IC522	I-16	Q507	F-19	Q805	E-30
D502	E-14	IC523	H-15	Q508	E-18	Q851	J-28
D503	E-20	IC524	J-14	Q509	E-19	Q852	J-28
D504	F-11	IC525	I-15	Q510	E-18	Q856	H-29
D505	G-11	IC526	J-16	Q511	E-19	Q857	H-29
D506	H-11	IC527	D-20	Q512	H-14	Q858	H-31
D507	D-14	IC528	G-12	Q513	I-15		
D508	D-12	IC529	F-12	Q514	J-15		
D509	I-13	IC530	F-11	Q515	I-15		
D510	G-13	IC531	I-11	Q516	I-16		
D511	E-14	IC532	I-12	Q517	C-20		
D801	D-31	IC533	E-11	Q518	E-20		
D802	D-31	IC534	E-12	Q519	E-19		
D880	H-30	IC535	D-14	Q520	E-19		
IC031	F-34	IC536	D-14	Q521	D-20		
IC032	G-34	IC537	C-14	Q522	D-20		
IC033	F-34	IC538	H-13	Q523	D-20		
IC034	F-34	IC801	C-29	Q524	F-12		
IC035	G-34	IC802	C-29	Q525	F-12		
IC036	H-34	IC805	D-30	Q526	F-11		
IC037	H-34	IC806	D-30	Q527	F-11		
IC038	I-34	IC807	D-28	Q528	G-11		
IC039	J-34	IC808	D-27	Q529	G-11		
IC041	B-34	IC851	I-27	Q530	H-11		
IC042	C-34	IC852	I-29	Q531	H-11		

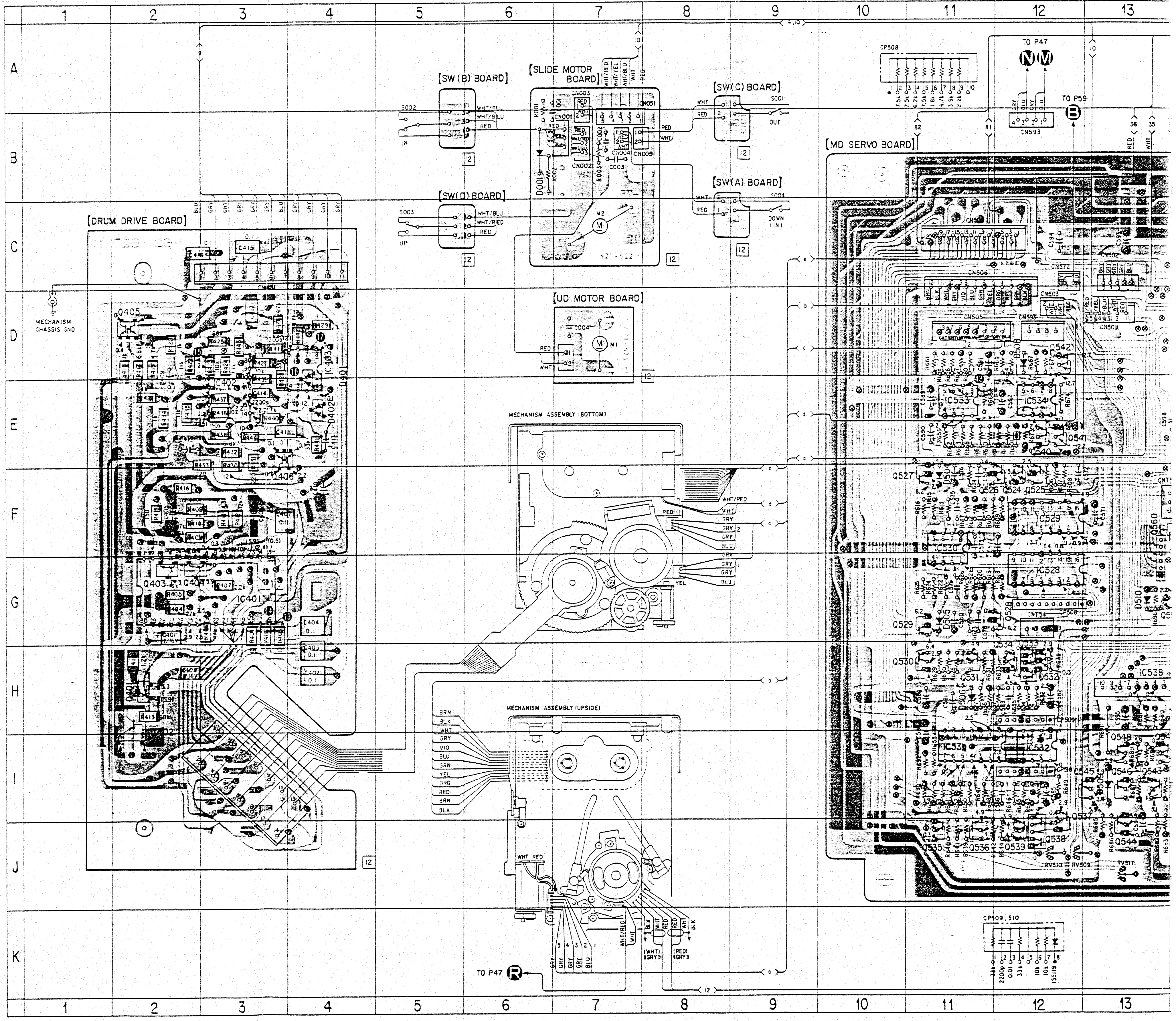
Note:

- Color code of sleeving over the end of the jacket.


WHT
RED
(RED)(GRY)

- ○—: parts extracted from the component side.
- ●—: parts extracted from the conductor side.
- ■ : part mounted on the conductor side.
- ⊗ : Through hole.

5-1. MOUNTING DIAGRAM (MD SERVO & DIGITAL BLOCK) — PCM-2500A


1
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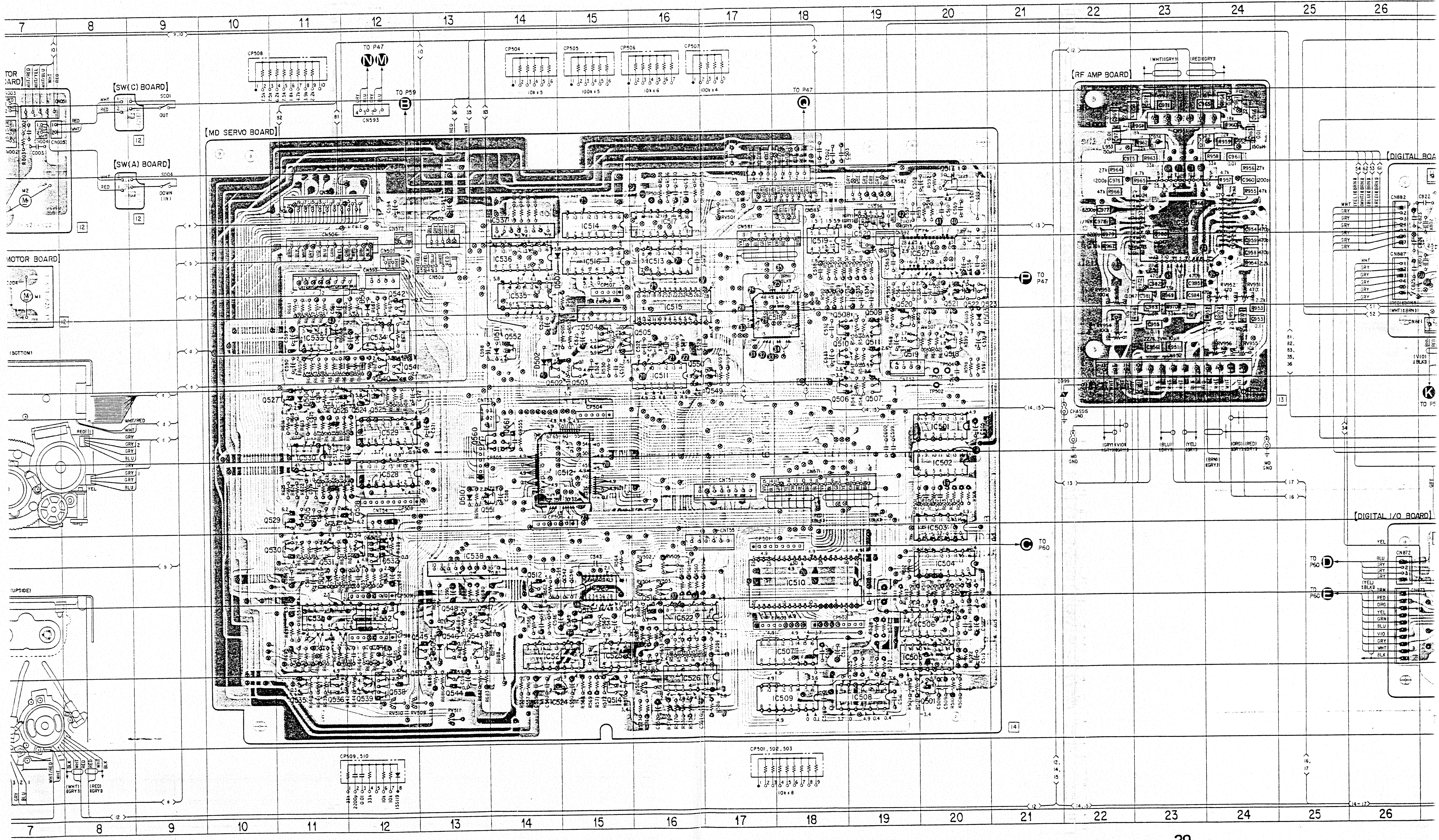
H
I
J
K
[SW(B) BOARD]
[SLIDE MOTOR BOARD]
[SW(C) BOARD]
[SW(A) BOARD]
[SW(D) BOARD]
[DRUM DRIVE BOARD]
[UD MOTOR BOARD]
[MD SERVO BOARD]
MECHANISM CHASSIS GND
MECHANISM ASSEMBLY (BOTTOM)
MECHANISM ASSEMBLY (UPSIDE)
TO P47
TO P59
TO P47
IN
OUT
UP
DOWN (IN)
CP508
CP509, 510
CN593
IC401
IC402
IC403
IC528
IC529
IC530
IC532
IC533
IC534
IC538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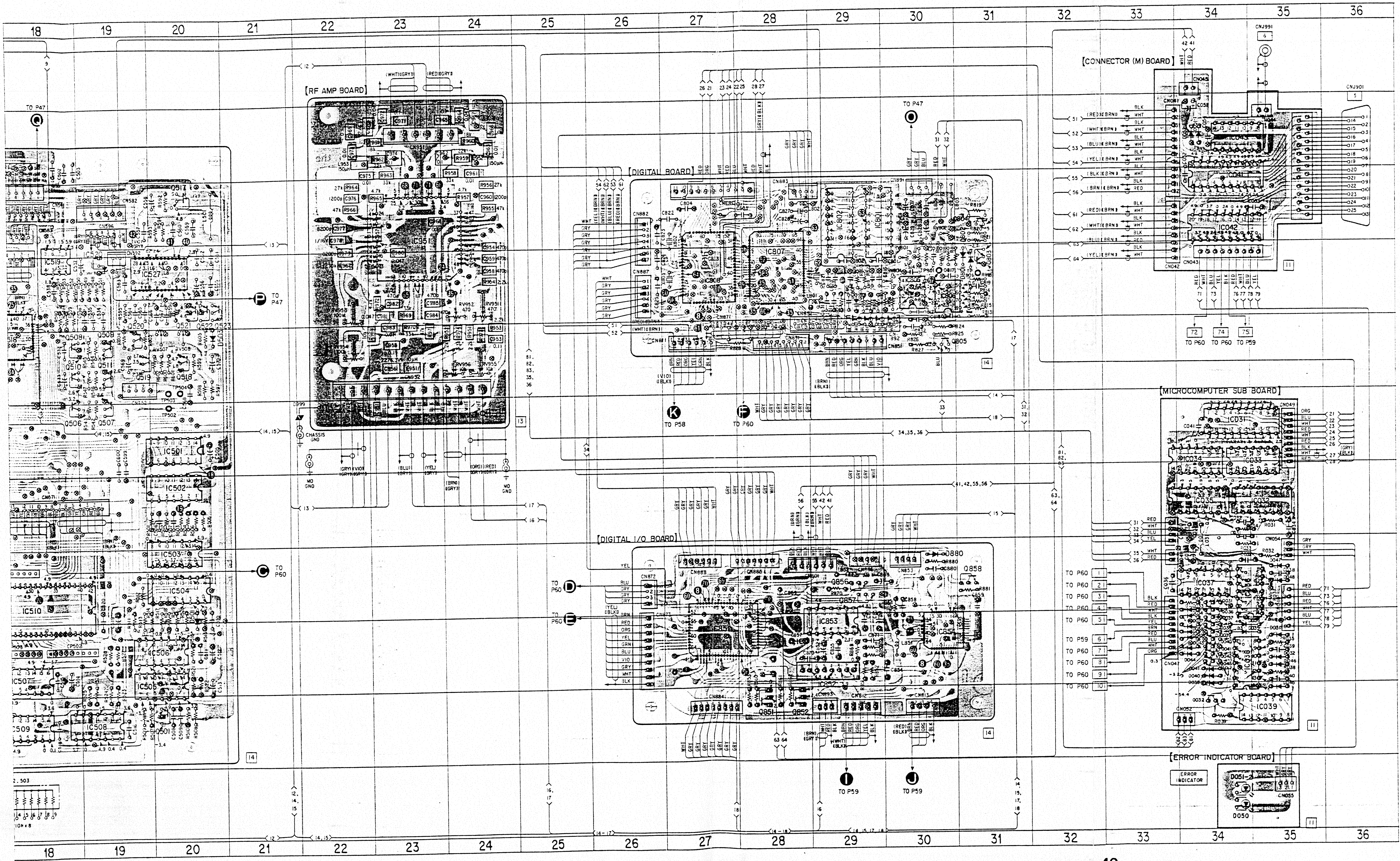
TOR
ARD]
[SW(C) BOARD]
S001
OUT
[SW(A) BOARD]
S004
DOWN (IN)
M2
MOTOR BOARD]
M1
(BOTTOM)
(UPSIDE)
TO P47
TO P59
TO P47
CN593
CP508
CP504
CP505
CP506
CP507
10k×5
100k×5
10k×6
100k×4
[MD SERVO BOARD]
[RF AMP BOARD]
TO P47
TO P60
CHASSIS GND
MD GND
[DIGITAL BOA
[DIGITAL I/O BOARD]
TO P50
TO P50
TO P5
CN882
CN887
CN872
CP509, 510
CP501, 502, 503
10k×8
IC510
IC512
IC515
IC536
IC538
WHT
RED
GRY
BLU
YEL
BLK
WHT/RED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[RF AMP BOARD]
[DIGITAL BOARD]
[CONNECTOR (M) BOARD]
[MICROCOMPUTER SUB BOARD]
[DIGITAL I/O BOARD]
[ERROR INDICATOR BOARD]
ERROR INDICATOR
TO P47
TO P58
TO P59
TO P60
CHASSIS GND
MD GND
CNJ991
CNJ901
IC951
IC807
IC801
IC802
IC803
IC041
IC042
IC043
IC031
IC032
IC033
IC034
IC035
IC036
IC037
IC038
IC039
IC501
IC502
IC503
IC504
IC505
IC506
IC508
IC509
IC510
IC519
IC520
IC527
IC851
IC853
IC854
D051
D050
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13
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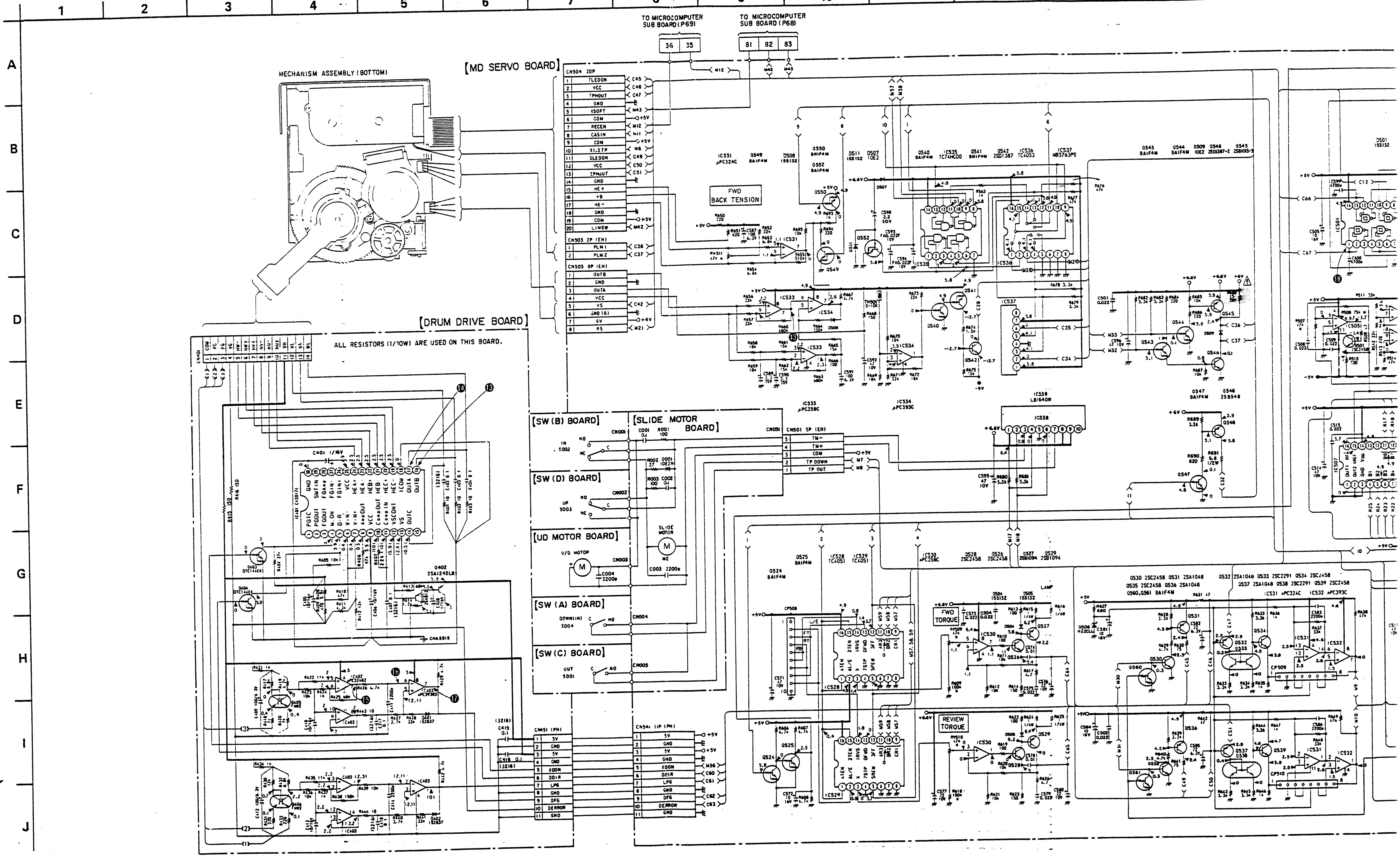
5-2. SCHEMATIC DIAGRAM (MD SERVO BLOCK) — PCM-2500A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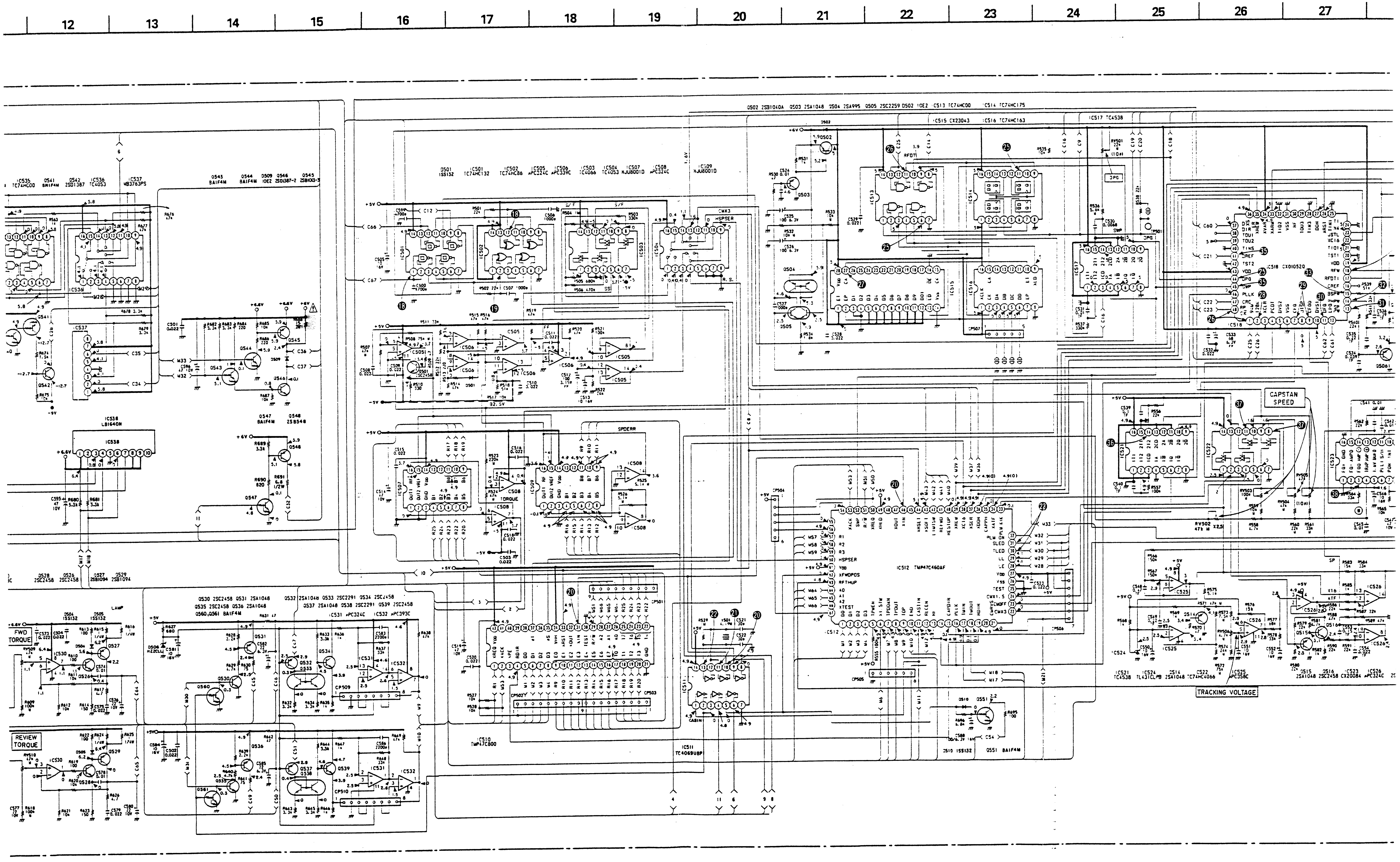
I
J
TO MICROCOMPUTER SUB BOARD (P69)
TO MICROCOMPUTER SUB BOARD (P68)
[MD SERVO BOARD]
MECHANISM ASSEMBLY (BOTTOM)
CN504 20P
CN503 2P (EH)
CN505 8P (EH)
[DRUM DRIVE BOARD]
ALL RESISTORS (1/10W) ARE USED ON THIS BOARD.
FWD BACK TENSION
[SW (B) BOARD]
[SLIDE MOTOR BOARD]
[SW (D) BOARD]
[UD MOTOR BOARD]
[SW (A) BOARD]
[SW (C) BOARD]
SLIDE MOTOR
U/D MOTOR
CN451 (PH)
CN541 11P (PH)
CN501 5P (EH)
FWD TORQUE
REVIEW TORQUE
IC531 μPC324C
IC533 μPC358C
IC534 μPC393C
IC535 TC74HC00
IC536 TC4053
IC537 M83763PS
IC538 LB1640N
IC528 TC4051
IC529 TC4051
IC530 μPC358C
IC401
IC402 CX22482
IC403 CX39382
CHASSIS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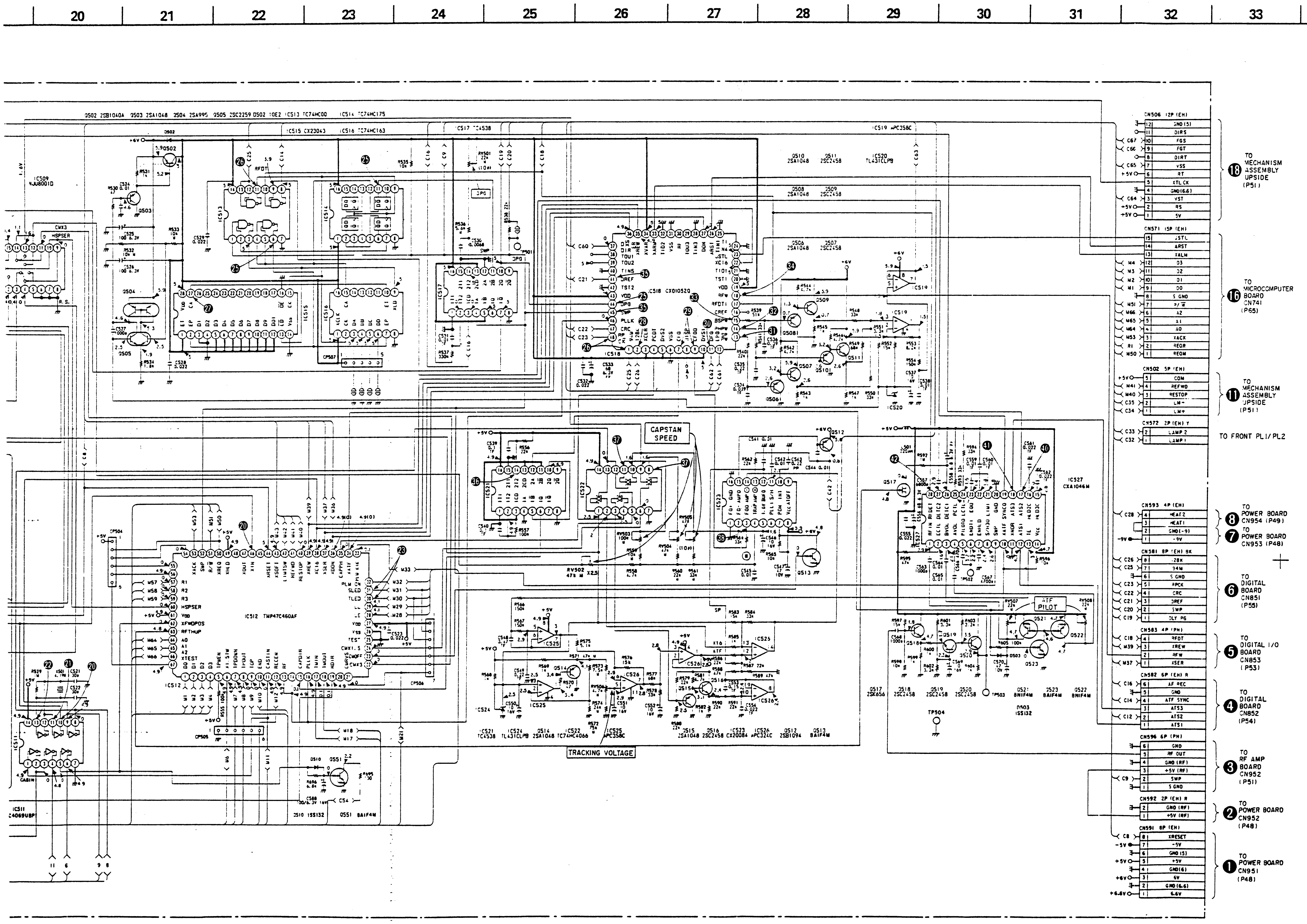
IC537 MB3763PS
IC538 LB1640N
IC501 TC74HC132
IC502 TC74HC86
IC505 μPC324C
IC506 μPC339C
IC503 TC4066
IC504 TC4053
IC507 NJU8001D
IC508 μPC324C
IC509 NJU8001D
IC510 TMP47C800
IC511 TC4069UBP
IC512 TMP47C460AF
IC513 TC74HC00
IC514 TC74HC175
IC515 CX23043
IC516 TC74HC163
IC517 TC4538
IC518 CX10152Q
IC521 TC4538
IC524 TL431CLPB
IC525 μPC358C
IC526 μPC324C
IC530
IC531 μPC324C
IC532 μPC393C
Q502 2SB1040A
Q503 2SA1048
Q504 2SA995
Q505 2SC2259
Q541 8A1F4M
Q542 2SD1387
Q543 8A1F4M
Q544 8A1F4M
Q545 2SB1003-3
Q546 2SD1387-2
Q547 8A1F4M
Q548 2SB548
Q551 8A1F4M
D510 1SS132
FWD TORQUE
REVIEW TORQUE
LAMP
TORQUE
SPDERR
CMX3
HSPSER
DPG
SWP
CAPSTAN SPEED
TRACKING VOLTAGE
+5V
-5V
+6V
+6.6V
CP501
CP502
CP503
CP504
CP505
CP506
CP507
CP509
CP510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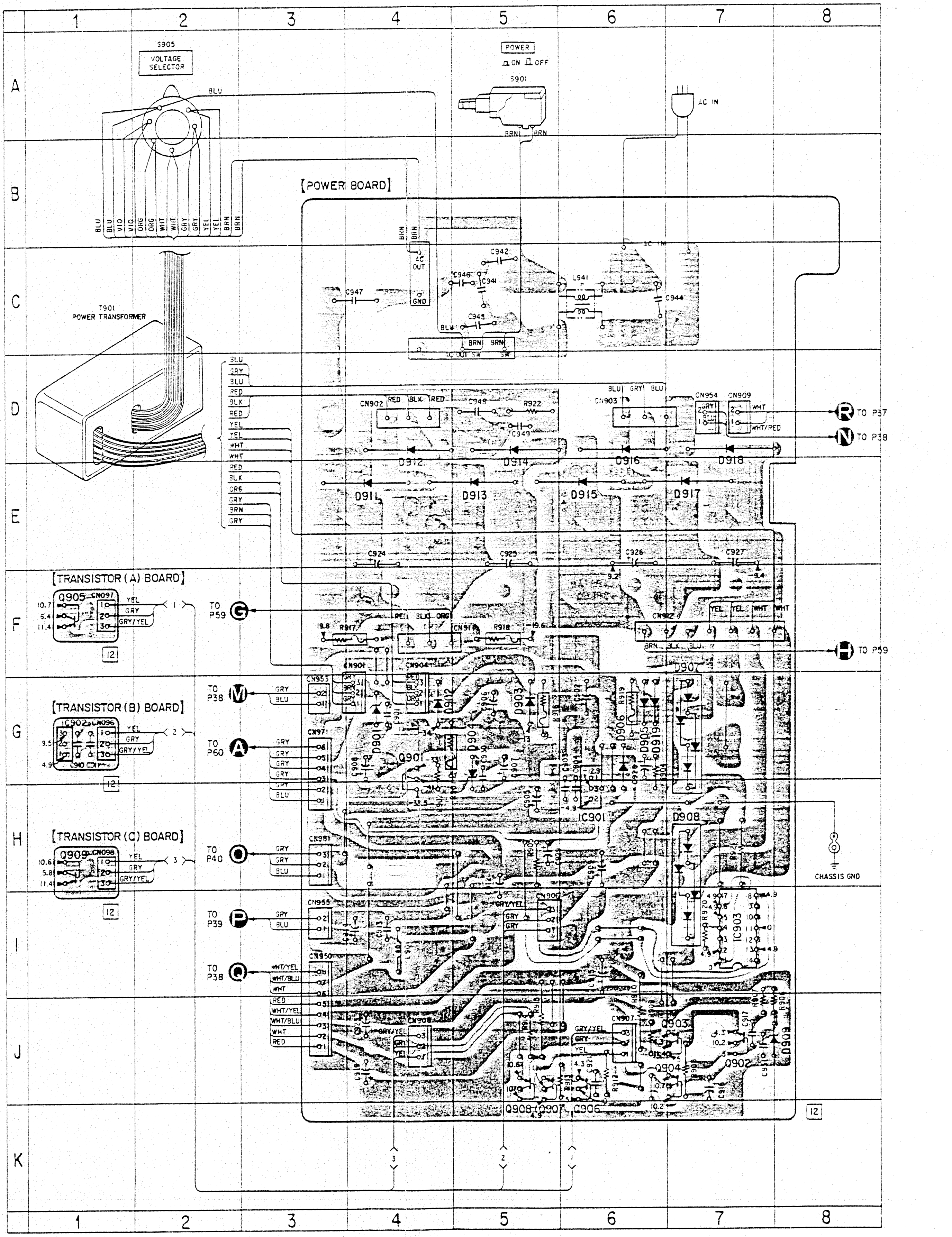
35
Q502 2SB1040A Q503 2SA1048 Q504 2SA995 Q505 2SC2259 D502 10E2 IC513 TC74HC00 IC514 TC74HC175
IC515 CX23043 IC516 TC74HC163
IC517 TC4538
IC19 μPC358C
IC509 μJU8001D
Q510 2SA1048 Q511 2SC2458
IC520 TL431CLPB
Q508 2SA1048 Q509 2SC2458
Q506 2SA1048 Q507 2SC2458
IC518 CX10105ZQ
IC512 TMP47C460AF
CAPSTAN SPEED
IC527 CXA1046M
ATF PILOT
TRACKING VOLTAGE
IC521 TC4538 IC524 TL431CLPB Q514 2SA1048 IC522 TC74HC4066 IC525 μPC358C
Q515 2SA1048 Q516 2SC2458 IC523 CX20084 IC526 μPC324C Q512 2SB1094 Q513 8A1F4M
Q517 2SK656 Q518 2SC2458 Q519 2SC2458 Q520 2SC2458 Q521 8A1F4M Q523 8A1F4M Q522 8A1F4M
D503 1SS132
TP503
TP504
D510 1SS132 Q551 8A1F4M
IC511 TC4069UBP
CN506 12P (EH)
12 GND (5)
11 DIRS
10 FGS
9 FGT
8 DIRT
7 VSS
6 RT
5 XTL CK
4 GND (6.6)
3 VST
2 RS
1 5V
⓲ TO MECHANISM ASSEMBLY UPSIDE (P51)
CN571 15P (EH)
15 JSTL
14 ARST
13 XALM
12 D3
11 D2
10 D1
9 D0
8 S GND
7 R/W
6 A2
5 A1
4 A0
3 XACK
2 REQR
1 REQM
⓰ TO MICROCOMPUTER BOARD CN741 (P65)
CN502 5P (EH)
5 COM
4 REFWD
3 RESTOP
2 LM−
1 LM+
⓫ TO MECHANISM ASSEMBLY UPSIDE (P51)
CN572 2P (EH) Y
2 LAMP 2
1 LAMP 1
TO FRONT PL1/PL2
CN593 4P (EH)
4 HEAT 2
3 HEAT 1
2 GND (−9)
1 −9V
❽ TO POWER BOARD CN954 (P49)
❼ TO POWER BOARD CN953 (P48)
CN581 8P (EH) BK
8 128K
7 34M
6 S GND
5 RPCK
4 CRC
3 DREF
2 SWP
1 DLY PG
❻ TO DIGITAL BOARD CN851 (P55)
CN583 4P (PH)
4 RFDT
3 XREW
2 RFW
1 XSER
❺ TO DIGITAL I/O BOARD CN853 (P53)
CN582 6P (EH) R
6 AF REC
5 GND
4 ATF SYNC
3 ATS3
2 ATS2
1 ATS1
❹ TO DIGITAL BOARD CN852 (P54)
CN596 6P (PH)
6 GND
5 RF OUT
4 GND (RF)
3 +5V (RF)
2 SWP
1 S GND
❸ TO RF AMP BOARD CN952 (P51)
CN592 2P (EH) R
2 GND (RF)
1 +5V (RF)
❷ TO POWER BOARD CN952 (P48)
CN591 8P (EH)
8 XRESET
7 −5V
6 GND (5)
5 +5V
4 GND (6)
3 6V
2 GND (6.6)
1 6.6V
❶ TO POWER BOARD CN951 (P48)

Semiconductor Location

Ref. No.	
D901	G-4
D902	G-4
D903	G-5
D904	G-5
D905	G-6
D906	G-6
D907	G-7
D908	H-7
D909	J-7
D911	E-4
D912	D-4
D913	E-5
D914	D-5
D915	E-6
D916	D-6
D917	E-7
D918	D-7
D919	G-6
IC901	H-6
IC902	G-1
IC903	I-7
Q901	G-4
Q902	J-7
Q903	J-7
Q904	J-7
Q905	F-1
Q906	J-6
Q907	J-5
Q908	J-5
Q909	H-1

5-3. MOUNTING DIAGRAM (POWER BLOCK) — PCM-2500A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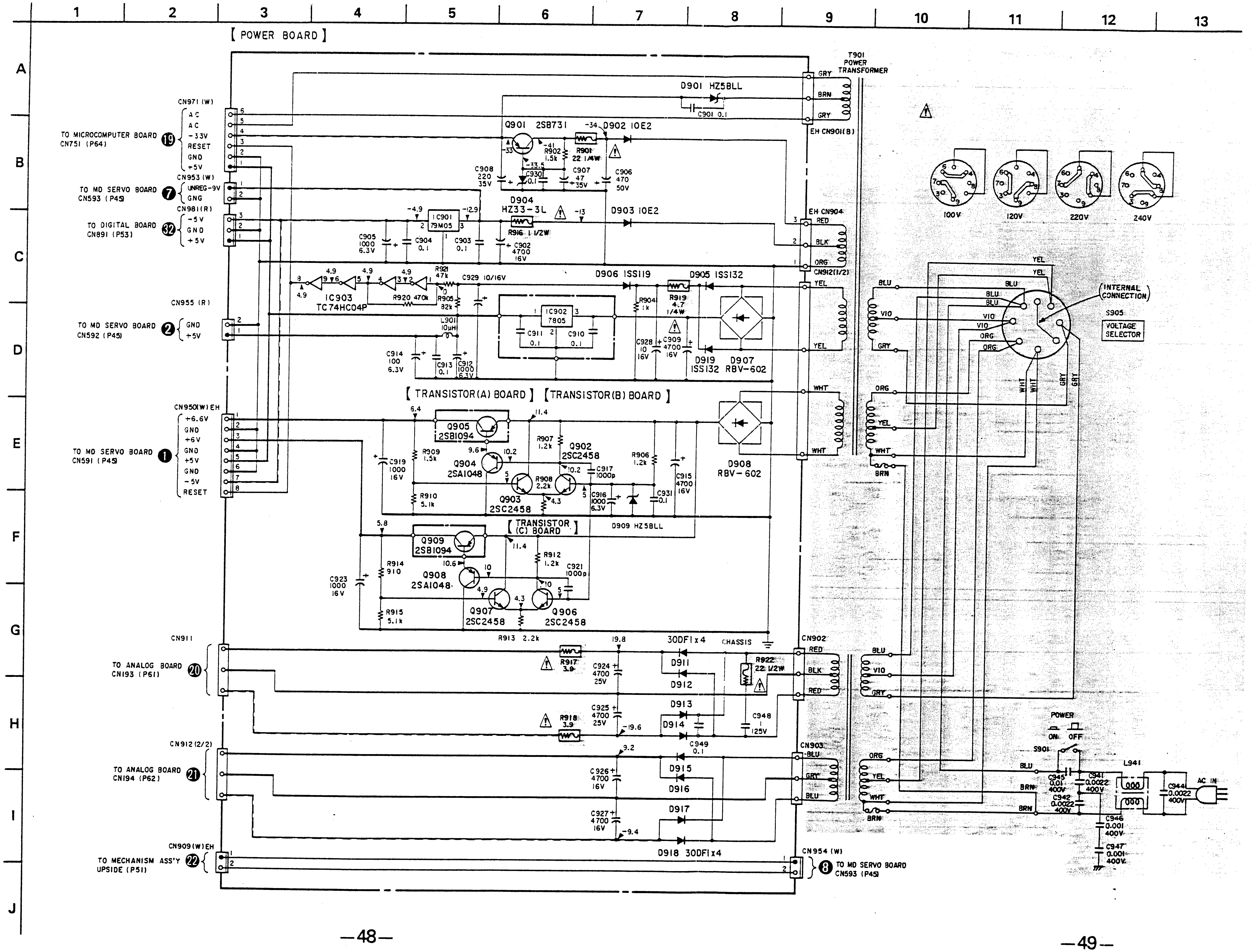
G
H
I
J
K
S905
VOLTAGE SELECTOR
POWER
ON OFF
S901
AC IN
[POWER BOARD]
T901
POWER TRANSFORMER
C942
C946
C947
C944
C945
L941
AC OUT
GND
SW
CN902
CN903
CN954
CN909
R922
C949
D912
D914
D916
D918
D911
D913
D915
D917
C924
C925
C926
C927
TO P37
TO P38
TO P59
[TRANSISTOR (A) BOARD]
Q905
CN097
[TRANSISTOR (B) BOARD]
IC902
CN096
[TRANSISTOR (C) BOARD]
Q909
CN098
TO P59
TO P38
TO P60
TO P40
TO P39
TO P38
CN953
CN971
CN951
CN955
CN950
CN908
Q901
IC901
D908
IC903
Q903
Q904
Q902
Q908
Q907
Q906
D909
CHASSIS GND
BLU
GRY
YEL
RED
BLK
WHT
BRN
ORG
VIO
GRY/YEL
WHT/RED
WHT/YEL
WHT/BLU
12

5-4. SCHEMATIC DIAGRAM (POWER BLOCK) — PCM-2500A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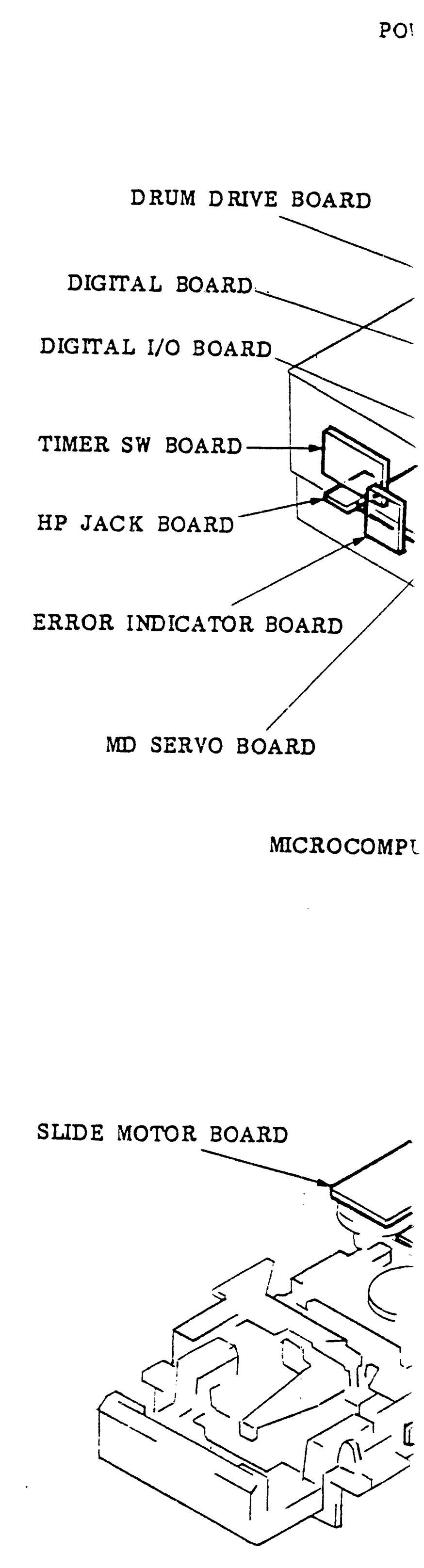
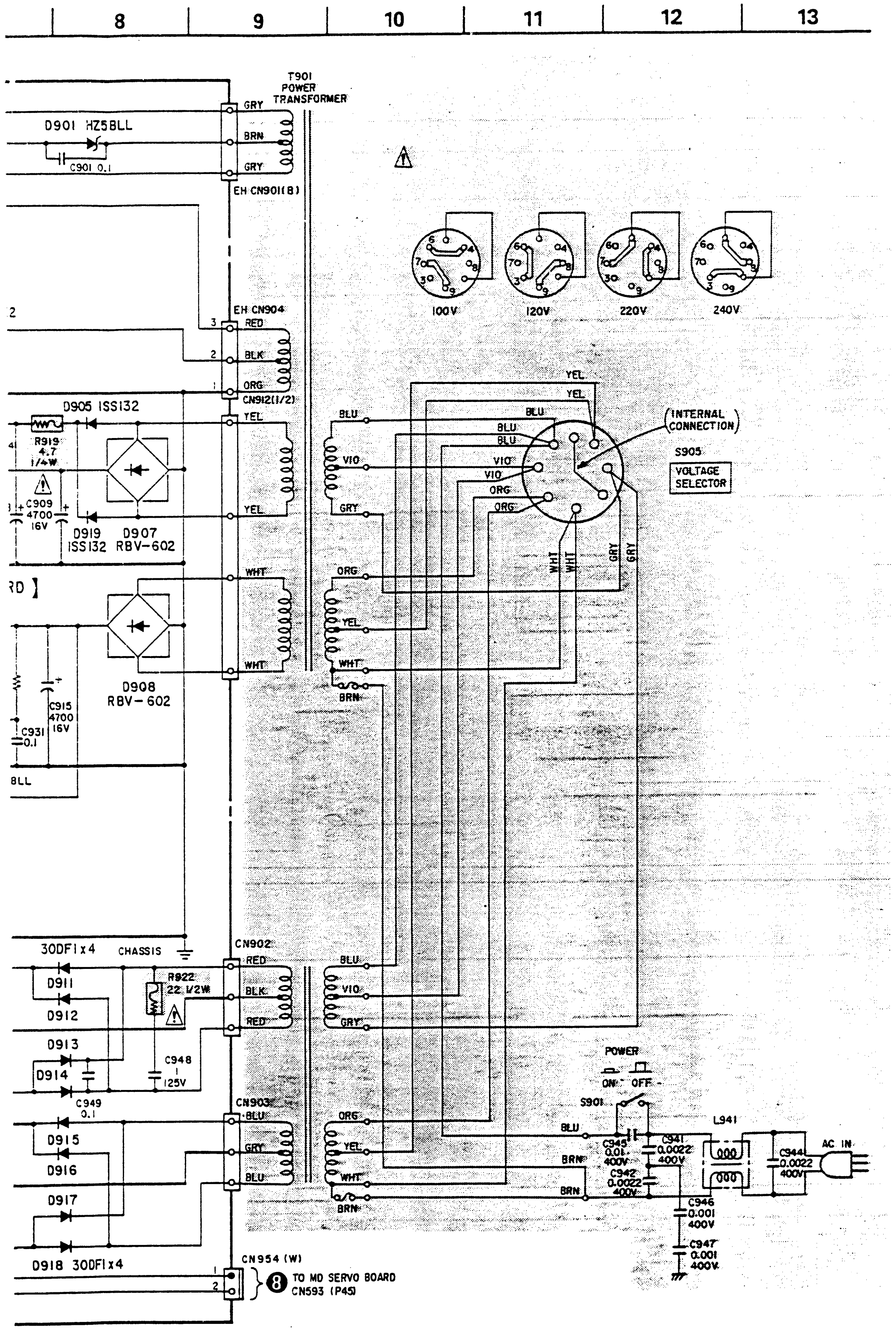
I
J
[POWER BOARD]
CN971 (W)
TO MICROCOMPUTER BOARD CN751 (P64)
⑲
AC
AC
-33V
RESET
GND
+5V
CN953 (W)
TO MD SERVO BOARD CN593 (P45)
❼
UNREG-9V
GNG
CN981 (R)
TO DIGITAL BOARD CN891 (P53)
㉜
-5V
GND
+5V
CN955 (R)
TO MD SERVO BOARD CN592 (P45)
❷
GND
+5V
CN950 (W) EH
TO MD SERVO BOARD CN591 (P45)
❶
+6.6V
GND
+6V
GND
+5V
GND
-5V
RESET
CN911
TO ANALOG BOARD CN193 (P61)
⑳
CN912 (2/2)
TO ANALOG BOARD CN194 (P62)
㉑
CN909 (W) EH
TO MECHANISM ASS'Y UPSIDE (P51)
㉒
CN954 (W)
❽
TO MD SERVO BOARD CN593 (P45)
T901 POWER TRANSFORMER
D901 HZ5BLL
C901 0.1
EH CN901 (B)
Q901 2SB731
D902 10E2
R902 1.5k
R901 22 1/4W
C908 220 35V
C930 0.1
C907 47 35V
C906 470 50V
D904 HZ33-3L
D903 10E2
R916 1 1/2W
C902 4700 16V
IC901 79M05
C905 1000 6.3V
C904 0.1
C903 0.1
EH CN904
CN912 (1/2)
IC903 TC74HC04P
R921 47k
R920 470k
R905 82k
C929 10/16V
L901 10μH
D906 1SS119
D905 1SS132
IC902 7805
C911 0.1
C910 0.1
R904 1k
R919 4.7 1/4W
C928 10 16V
C909 4700 16V
D919 1SS132
D907 RBV-602
C914 100 6.3V
C913 0.1
C912 1000 6.3V
[TRANSISTOR (A) BOARD]
[TRANSISTOR (B) BOARD]
Q905 2SB1094
Q904 2SA1048
Q903 2SC2458
Q902 2SC2458
R909 1.5k
R910 5.1k
R907 1.2k
R908 2.2k
C917 1000p
C919 1000 16V
C916 1000 6.3V
R906 1.2k
C915 4700 16V
C931 0.1
D909 HZ5BLL
D908 RBV-602
[TRANSISTOR (C) BOARD]
Q909 2SB1094
Q908 2SA1048
Q907 2SC2458
Q906 2SC2458
R914 910
R915 5.1k
R912 1.2k
C921 1000p
C923 1000 16V
R913 2.2k
CHASSIS
30DF1x4
R917 3.9
C924 4700 25V
D911
D912
R922 22 1/2W
CN902
R918 3.9
C925 4700 25V
D913
D914
C948 1 125V
C949 0.1
CN903
C926 4700 16V
D915
D916
C927 4700 16V
D917
D918 30DF1x4
100V
120V
220V
240V
(INTERNAL CONNECTION)
S905 VOLTAGE SELECTOR
POWER ON OFF
S901
C945 0.01 400V
C941 0.0022 400V
C942 0.0022 400V
L941
C944 0.0022 400V
AC IN
C946 0.001 400V
C947 0.001 400V
RED
BLK
ORG
YEL
WHT
BRN
GRY
BLU
VIO

Board Layout (PCM-2500A)


PO
DRUM DRIVE BOARD
DIGITAL BOARD
DIGITAL I/O BOARD
TIMER SW BOARD
HP JACK BOARD
ERROR INDICATOR BOARD
MD SERVO BOARD
MICROCOMPU
SLIDE MOTOR BOARD


8
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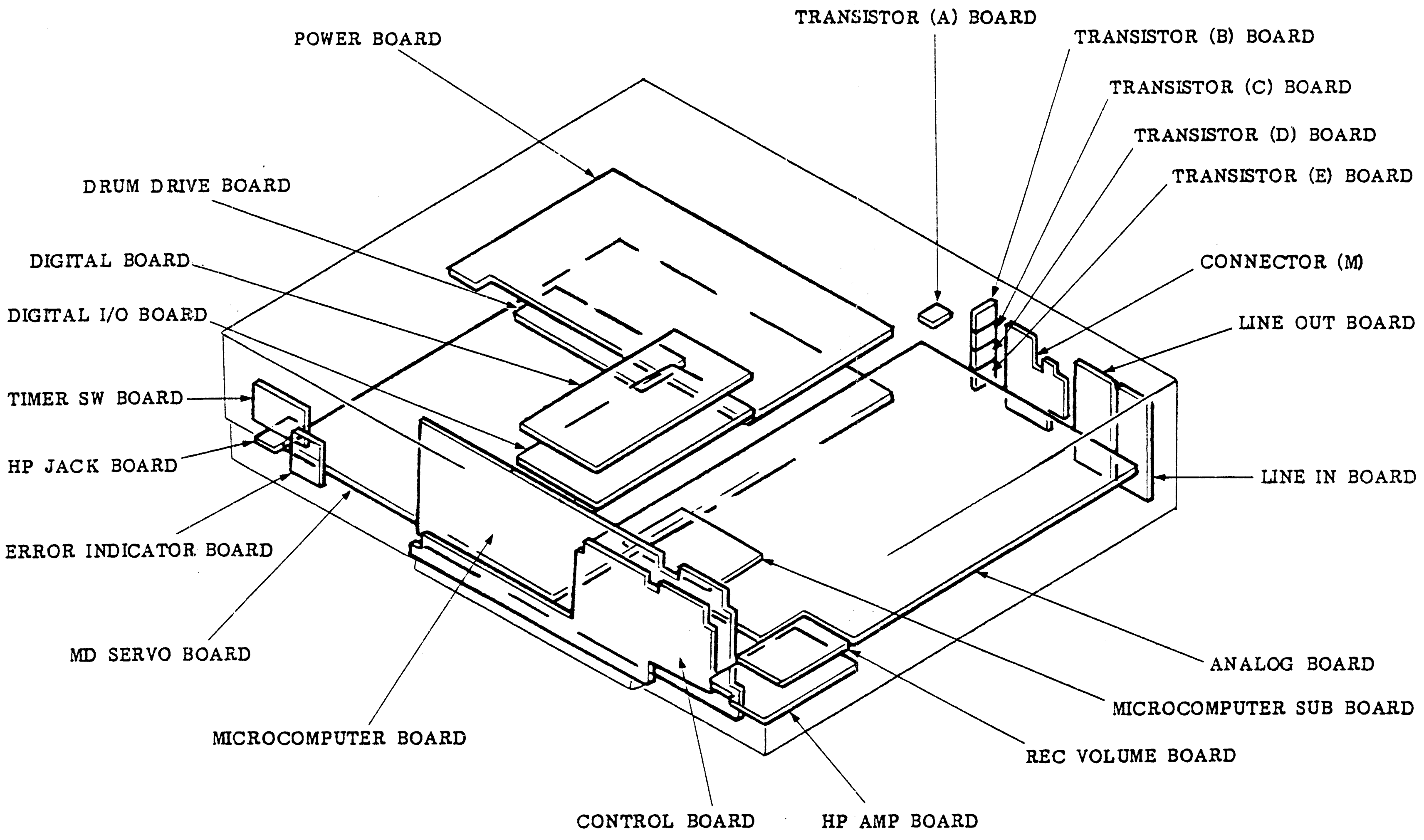
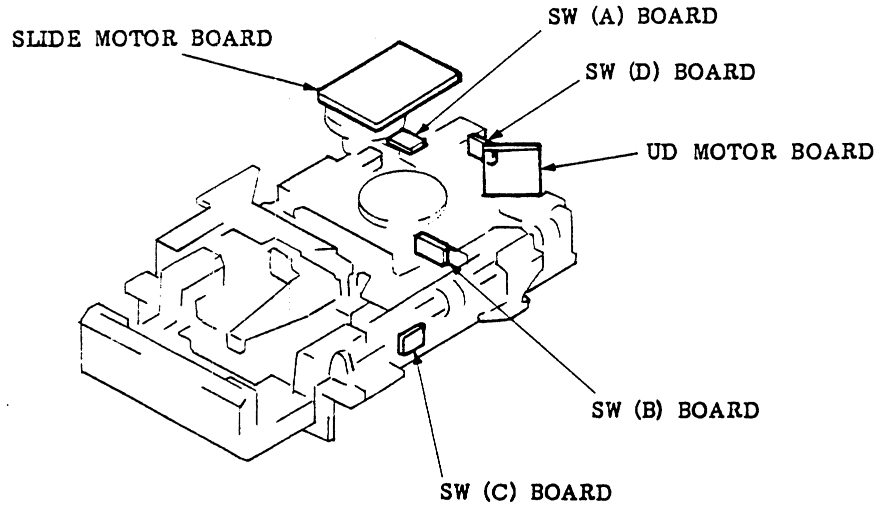
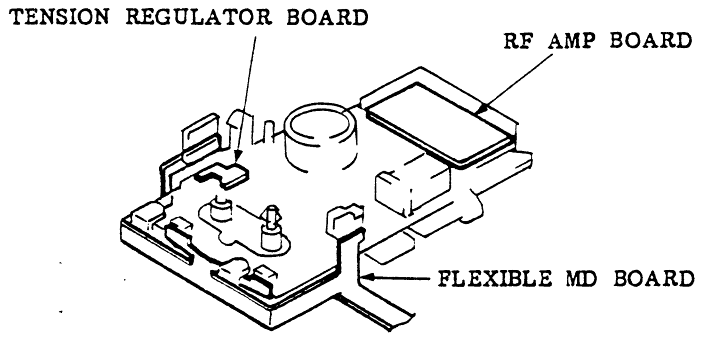
12
13
T901 POWER TRANSFORMER
D901 HZ5BLL
C901 0.1
GRY
BRN
GRY
EH CN901(8)
EH CN904
RED
BLK
ORG
CN912(1/2)
D905 ISS132
R919 4.7 1/4W
C909 4700 16V
D919 ISS132
D907 RBV-602
YEL
YEL
WHT
WHT
D908 RBV-602
C915 4700 16V
C931 0.1
100V
120V
220V
240V
BLU
VIO
GRY
ORG
YEL
WHT
BRN
INTERNAL CONNECTION
S905 VOLTAGE SELECTOR
CN902
30DF1x4
CHASSIS
D911
D912
D913
D914
R922 22 1/2W
C948 1 125V
C949 0.1
CN903
D915
D916
D917
D918 30DF1x4
CN954 (W)
8 TO MD SERVO BOARD CN593 (P45)
POWER
ON OFF
S901
C945 0.01 400V
C941 0.0022 400V
C942 0.0022 400V
L941
C944 0.0022 400V
AC IN
C946 0.001 400V
C947 0.001 400V

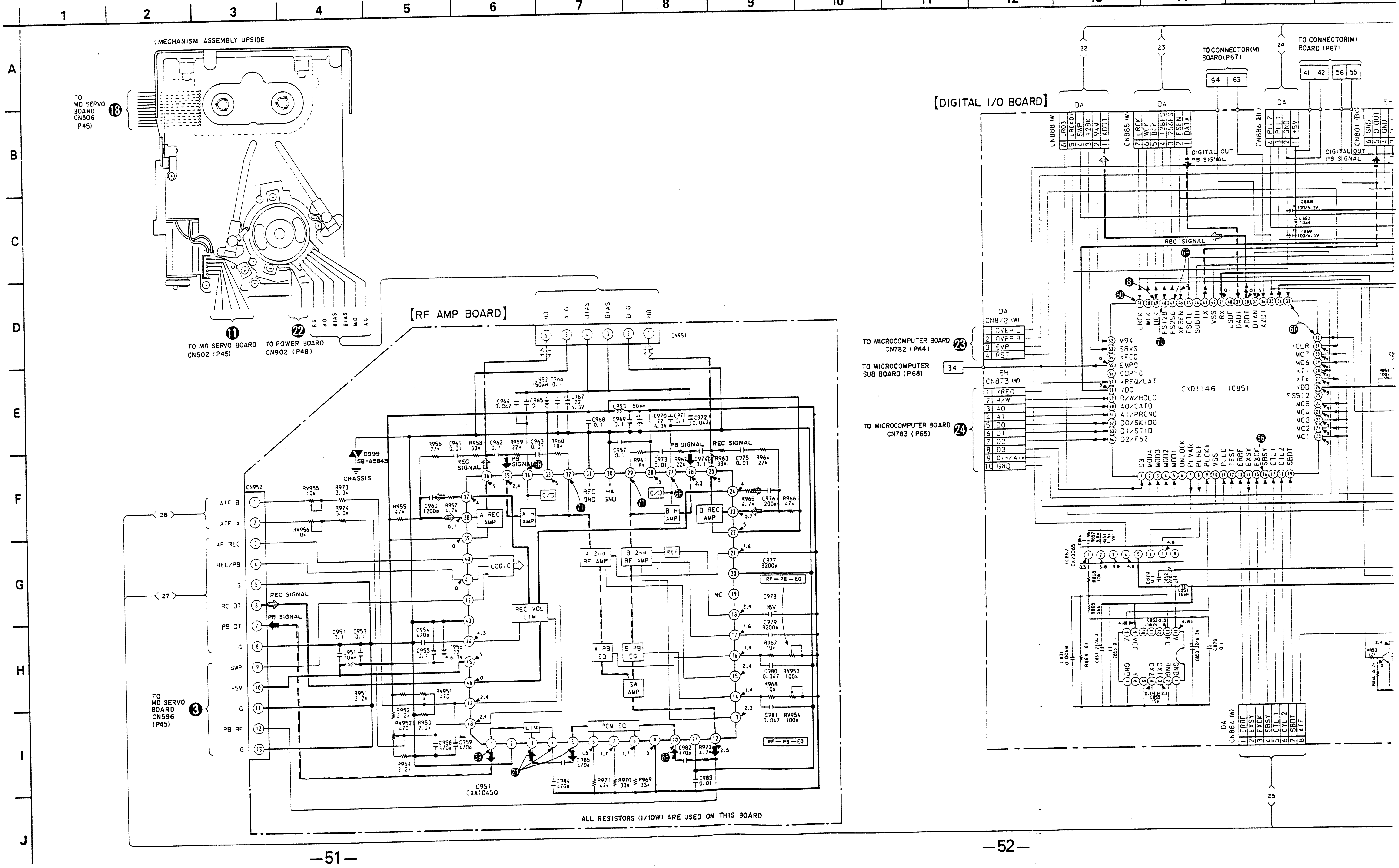
Board Layout (PCM-2500A)


POWER BOARD
TRANSISTOR (A) BOARD
TRANSISTOR (B) BOARD
TRANSISTOR (C) BOARD
TRANSISTOR (D) BOARD
TRANSISTOR (E) BOARD
DRUM DRIVE BOARD
DIGITAL BOARD
DIGITAL I/O BOARD
CONNECTOR (M)
LINE OUT BOARD
TIMER SW BOARD
HP JACK BOARD
LINE IN BOARD
ERROR INDICATOR BOARD
MD SERVO BOARD
ANALOG BOARD
MICROCOMPUTER SUB BOARD
MICROCOMPUTER BOARD
REC VOLUME BOARD
CONTROL BOARD
HP AMP BOARD


SLIDE MOTOR BOARD
SW (A) BOARD
SW (D) BOARD
UD MOTOR BOARD
SW (B) BOARD
SW (C) BOARD


TENSION REGULATOR BOARD
RF AMP BOARD
FLEXIBLE MD BOARD

5-4. SCHEMATIC DIAGRAM (DIGITAL BLOCK) — PCM-2500A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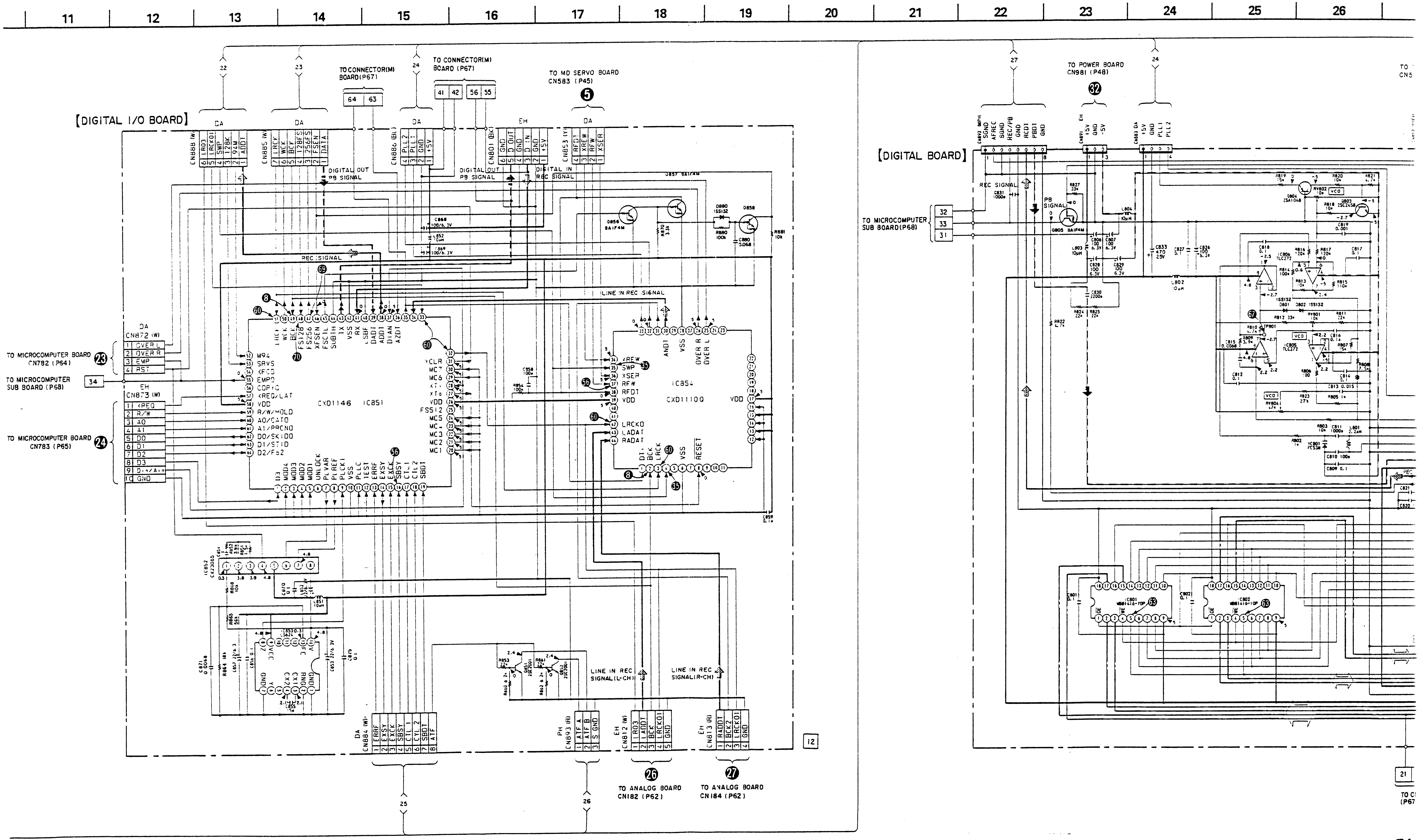
I
J
(MECHANISM ASSEMBLY UPSIDE
TO MD SERVO BOARD CN506 (P45) ⑱
TO MD SERVO BOARD CN502 (P45) ⑪
TO POWER BOARD CN902 (P48) ㉒
BG HD BIAS BIAS MD AG
[RF AMP BOARD]
CN951
CN952
ATF B
ATF A
AF REC
REC/PB
G
RC DT
PB DT
SWP
+5V
PB RF
TO MD SERVO BOARD CN596 (P45) ③
26
27
REC SIGNAL
PB SIGNAL
D999 SB-A5843
CHASSIS
A REC AMP
A H AMP
LOGIC
REC VOL LIM
A 2nd RF AMP
B 2nd RF AMP
REF
A PB EQ
B PB EQ
SW AMP
B H AMP
B REC AMP
C/D
REC GND
HA GND
LIM
PCM EQ
RF—PB—EQ
IC951 CXA1045Q
ALL RESISTORS (1/10W) ARE USED ON THIS BOARD
[DIGITAL I/O BOARD]
TO CONNECTOR(M) BOARD(P67)
64 63
41 42 56 55
22
23
24
25
DA
CN888 (W) LRO3 LRCK01 SWP 128K 94M ADD1
CN885 (W) LRCK WCK BCK 128FS 256FS FSEN DATA
CN886 (BK) PLL2 PLL1 GND +5V
CN801 (BK) GND D OUT GND
DIGITAL OUT PB SIGNAL
REC SIGNAL
CN872 (W) OVER L OVER R EMP RST
TO MICROCOMPUTER BOARD CN782 (P64) ㉓
TO MICROCOMPUTER SUB BOARD (P68)
34
EH CN873 (W) XREQ R/W A0 A1 D0 D1 D2 D3 Dout/Ain GND
TO MICROCOMPUTER BOARD CN783 (P65) ㉔
M94 SRVS XFCO EMPO COPYO XREQ/LAT VDD R/W/HOLD A0/CATO A1/PRCNO D0/SKIDO D1/STID D2/F62
CXD1146 IC851
LRCK WCK BCK FS128 FS256 XFSEN FSCTL SUBIH TX VSS RX LSBF DADI ADDI DIAN AZDT
XCLR MC7 MC6 XTI XTO VDD FS512 MC5 MC4 MC3 MC2 MC1
D3 MOD4 MOD3 MOD2 MOD1 UNLOCK PLVAR PLREF PLCKI VSS PLLC TEST ERRF EXSY EXCK SBSY CTL1 CTL2 SBDT
IC852 CX23065
CN884 (W) ERRF EXSY EXCK SBSY CTL 1 CYL 2 SBDT ATF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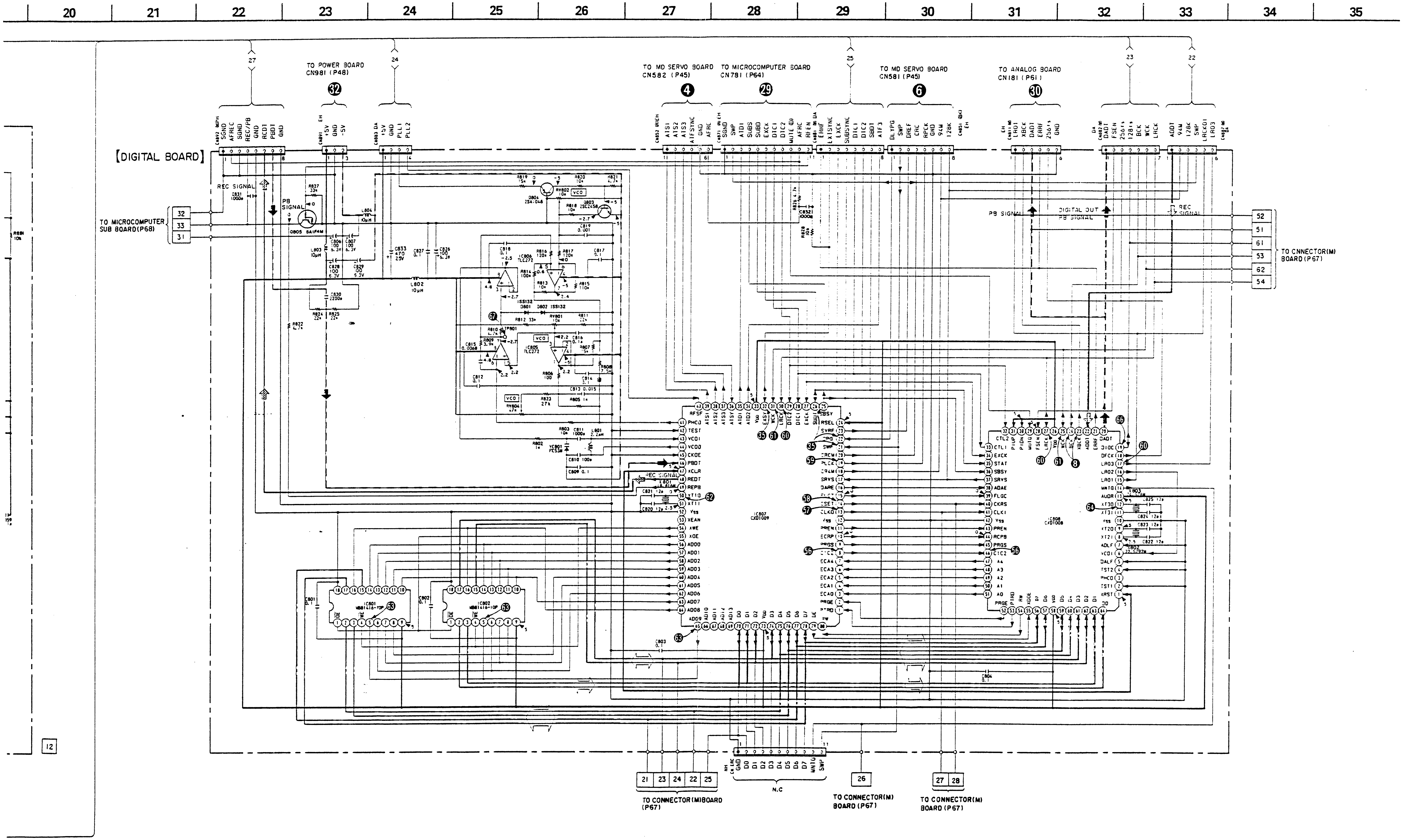
[DIGITAL I/O BOARD]
TO CONNECTOR(M) BOARD (P67)
64
63
TO CONNECTOR(M) BOARD (P67)
41
42
56
55
TO MD SERVO BOARD CN583 (P45)
CN888 (W)
CN885 (W)
CN886 (BK)
CN801 (BK)
CN853 (Y)
DIGITAL OUT PB SIGNAL
DIGITAL IN REC SIGNAL
REC SIGNAL
LINE IN REC SIGNAL
TO MICROCOMPUTER BOARD CN782 (P64)
TO MICROCOMPUTER SUB BOARD (P68)
TO MICROCOMPUTER BOARD CN783 (P65)
CN872 (W)
CN873 (W)
CXD1146 IC851
CXD1110Q IC854
IC852 CX20065
LINE IN REC SIGNAL(L-CH)
LINE IN REC SIGNAL(R-CH)
CN884 (W)
CN893 (R)
CN812 (W)
CN813 (R)
TO ANALOG BOARD CN182 (P62)
TO ANALOG BOARD CN184 (P62)
TO POWER BOARD CN981 (P48)
[DIGITAL BOARD]
TO MICROCOMPUTER SUB BOARD (P68)
REC SIGNAL
PB SIGNAL
IC801 MB81416-10P
IC802 MB81416-10P
IC805 TLC272
IC806 TLC272
VCO
12
21


20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
【DIGITAL BOARD】
TO POWER BOARD
CN981 (P48)
㉜
TO MD SERVO BOARD
CN582 (P45)
❹
TO MICROCOMPUTER BOARD
CN781 (P64)
㉙
TO MD SERVO BOARD
CN581 (P45)
❻
TO ANALOG BOARD
CN181 (P61)
㉚
SGND
AFREC
SGND
REC/PB
GND
RCD1
PBD1
GND
+5V
GND
-5V
+5V
GND
PLL1
PLL2
ATS1
ATS2
ATS3
ATFSYNC
GND
AFRC
SGND
SWP
ATD1
SUBS
SUBD
EXCK
DIC1
DIC2
MUTE (D)
AFRC
RFEN
ERRF
EXTSYNC
EXCK
SUBSYNC
DIC1
DIC2
SBDT
ATF3
DLYPG
SWP
DREF
CRC
RPCK
GND
94M
128K
LR01
XBCK
DADT
ERRF
256fs
GND
DADT
FSEN
256fs
128fs
BCK
WCK
LRCK
ADDT
94M
128K
SWP
LRCK01
LR03
TO MICROCOMPUTER SUB BOARD (P68)
32
33
31
REC SIGNAL
PB SIGNAL
Q805 8A1F4M
Q804 2SA1048
Q803 2SC2458
IC806 TLC272
IC805 TLC272
D801 1SS132
D802 1SS132
VCO
RV801
RV802
RV804
TP801
X801
IC807 CXD1009
IC808 CXD1008
IC801 MB81416-10P
IC802 MB81416-10P
PB SIGNAL
DIGITAL OUT
PB SIGNAL
REC SIGNAL
52
51
61
53
62
54
TO CNNECTOR(M) BOARD (P67)
21
23
24
22
25
TO CONNECTOR (M) BOARD (P67)
N.C
26
TO CONNECTOR (M) BOARD (P67)
27
28
TO CONNECTOR (M) BOARD (P67)
12

Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.

> Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

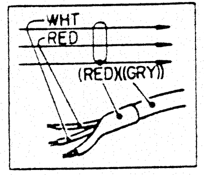
- △ : internal component.
- ▭ : fusible resistor.
- ━━ : B+ bus.
- ╍╍ : B– bus.
- ▭ : adjustment for repair.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal conditions with a VOM (50 kΩ/V).
- Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken to ground in STOP mode by using oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- ➡ : playback signal path
- ⇨ : record signal path

. Semiconductor Location

Ref. No.		Ref. No.	
D101	E-12	IC301	H-3
D102	E-6	IC302	F-16
D103	E-6	IC303	I-12
D104	F-6	IC304	G-12
D105	E-10	IC305	H-7
D201	C-12	IC306	E-7
D202	E-7	IC307	H-6
D203	E-7	IC308	A-16
D204	F-7	IC309	A-15
D205	D-10	IC311	F-15
D301	H-15	IC701	G-20
D302	H-15	IC702	G-19
D303	G-16	IC703	G-21
D304	I-16	IC704	H-25
D305	H-9	IC705	F-25
D306	H-8	IC706	H-27
D307	G-3	Q101	F-12
D308	G-3	Q102	F-6
D701	F-28	Q201	C-12
D702	F-27	Q202	F-7
D703	F-27	Q301	H-6
D704	F-27	Q302	I-7
D705	F-27	Q303	I-7
D706	F-27	Q304	I-7
D707	F-28	Q305	H-7
D708	F-28	Q306	H-7
D709	F-28	Q307	G-15
D710	G-23	Q308	G-14
D712	F-27	Q309	F-15
D713	F-27	Q310	F-15
D714	F-27	Q311	I-15
D715	F-27	Q312	I-14
D717	G-22	Q313	I-14
D718	F-22	Q314	I-15
D719	G-22	Q701	G-25
D720	F-22	Q702	G-25
D751	D-22	Q703	G-24
D752	D-28	Q704	G-22
D753	D-26	Q705	F-22
D754	D-23	Q706	G-22
IC101	E-9	Q707	G-22
IC102	E-11	Q708	F-23
IC103	E-12		
IC104	F-13		
IC105	G-10		
IC201	D-9		
IC202	D-11		
IC203	C-12		
IC204	C-13		
IC205	I-10		

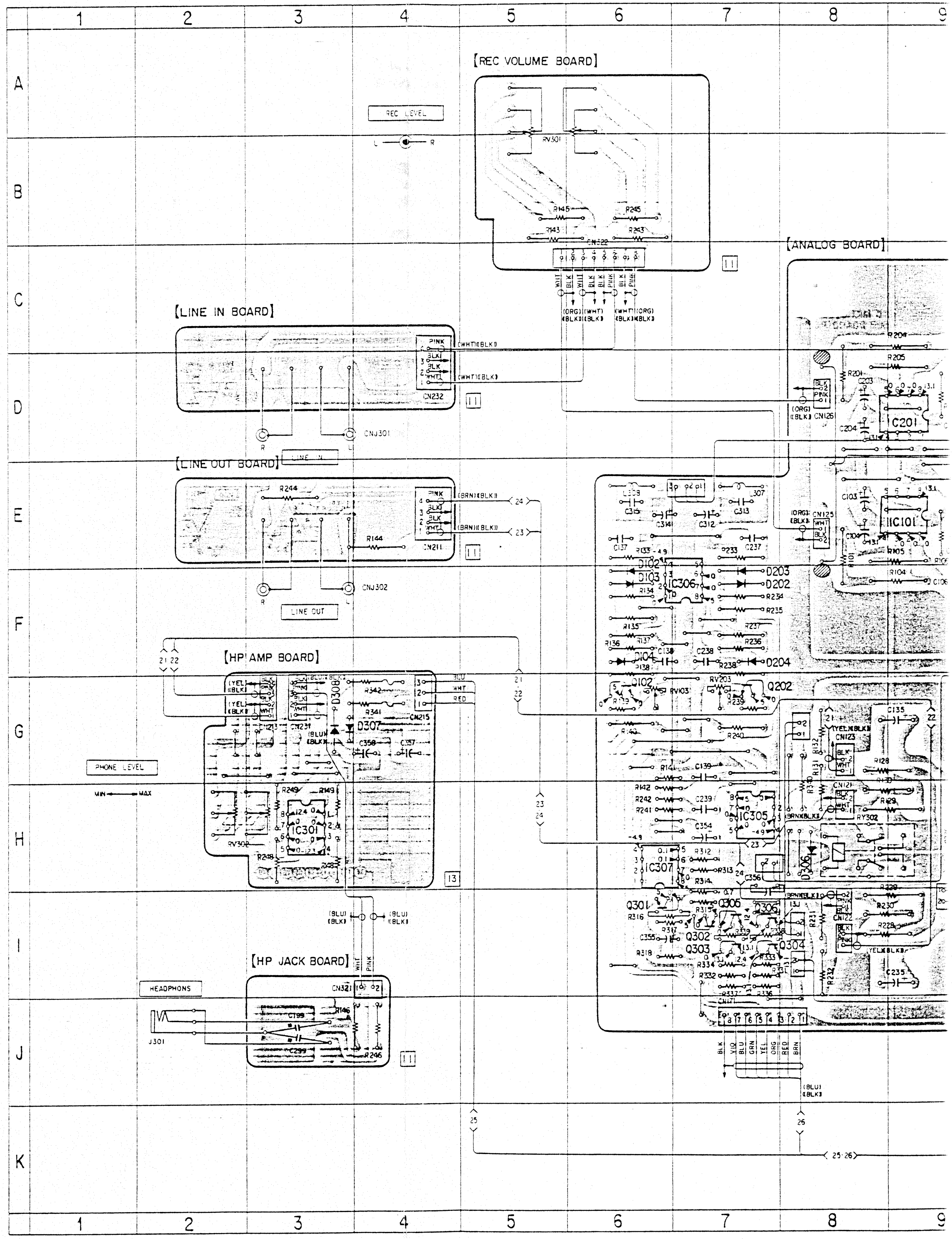
Note:

- Color code of sleeving over the end of the jacket.

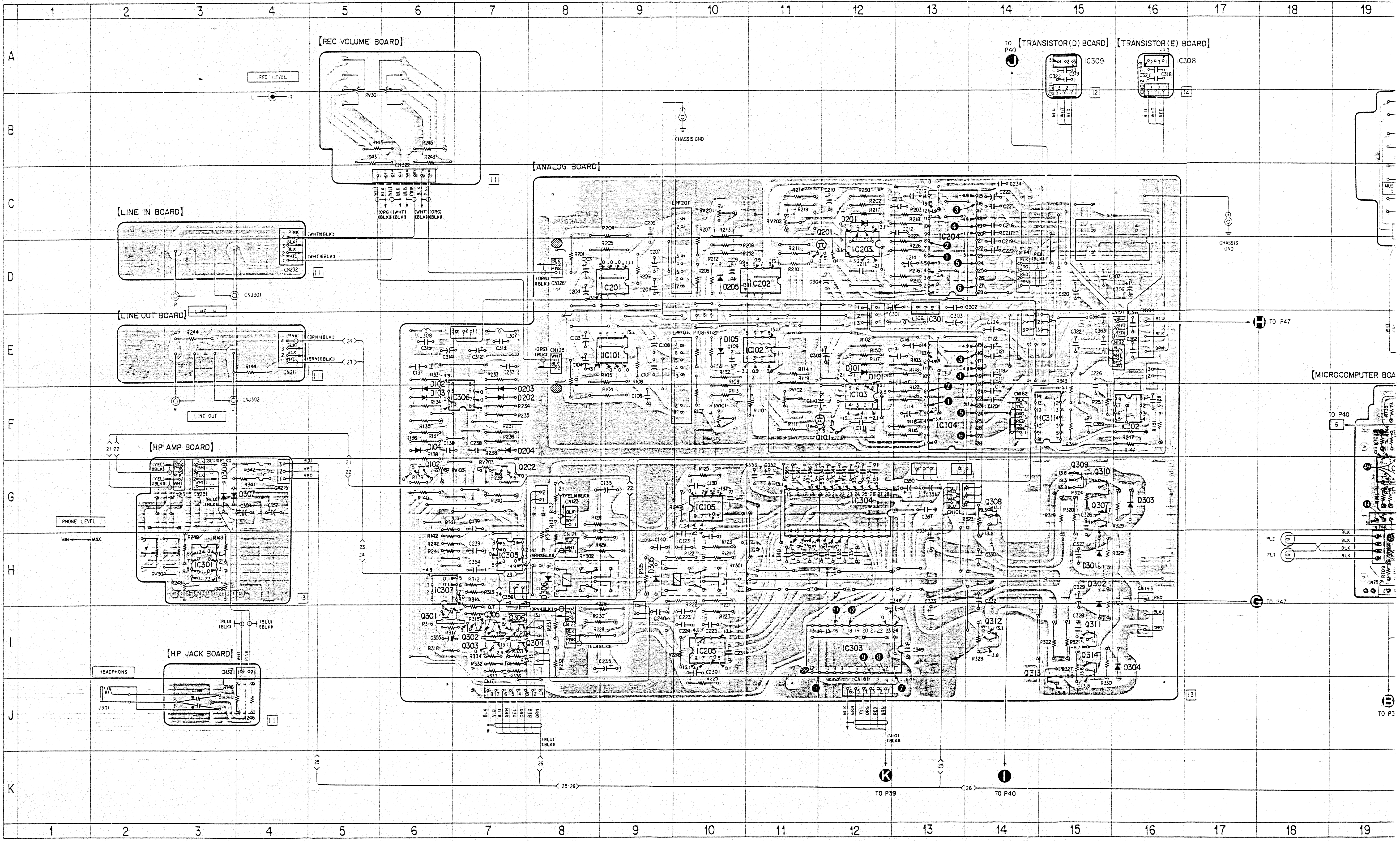

WHT
RED
(RED)(GRY)

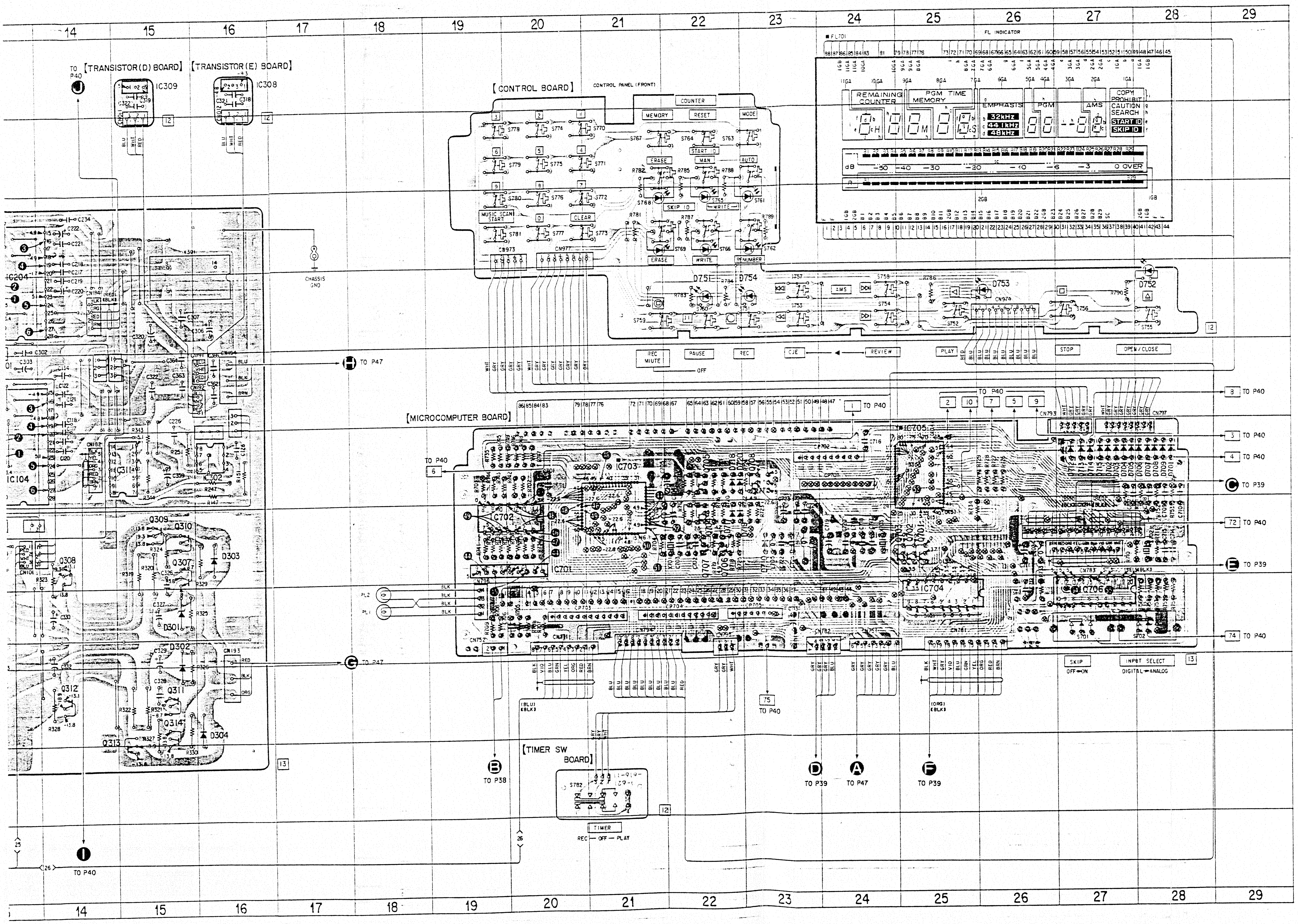
- ○—— : parts extracted from the component side.
- ●—— : parts extracted from the conductor side.
- ■ : part mounted on the conductor side.
- ⊗ : Through hole.

5-5. MOUNTING DIAGRAM (ANALOG & MICROCOMPUTER BLOCK) — PCM-2500A

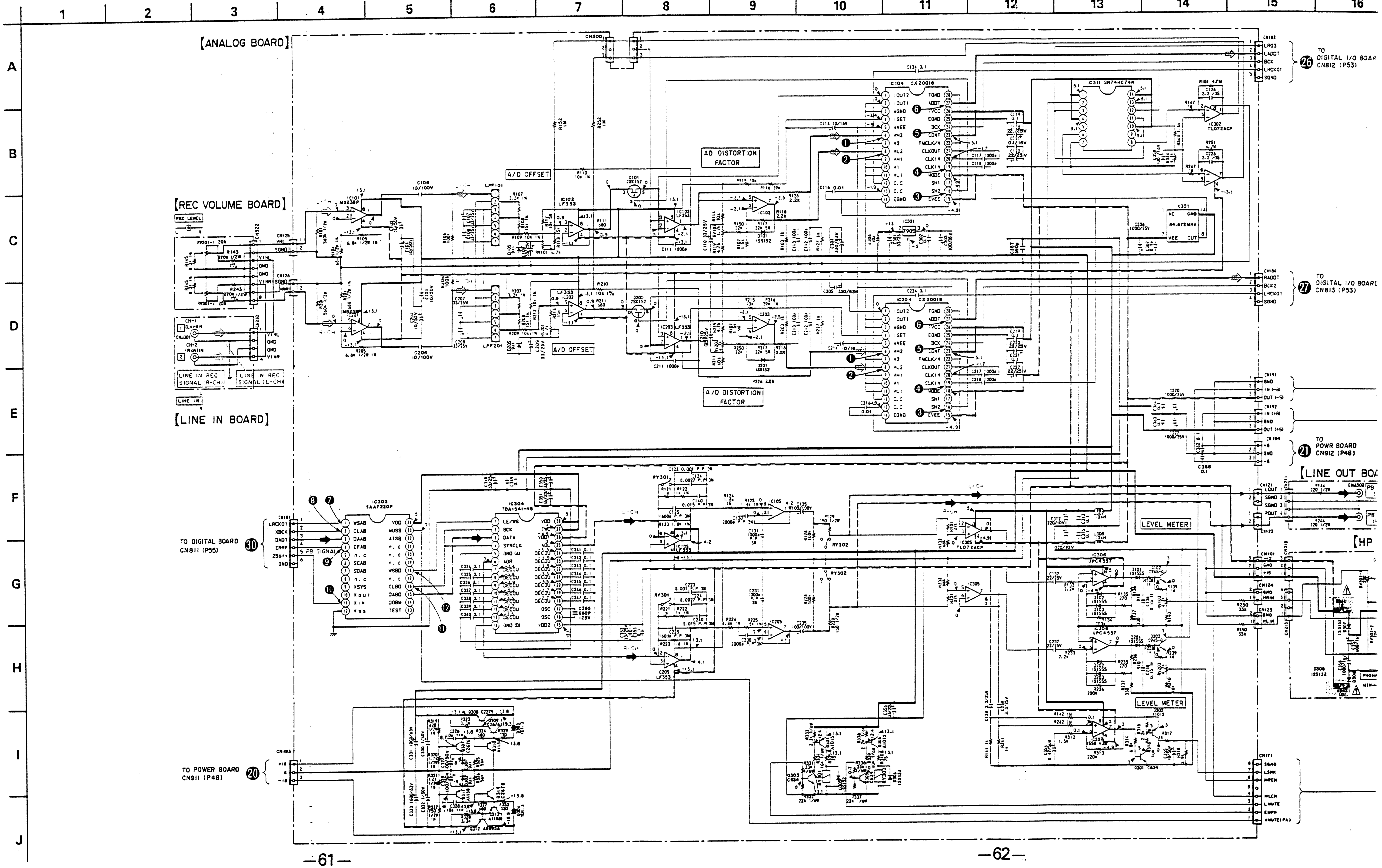

1
2
3
4
5
6
7
8
A
B
C
D
E
F
G
H
I
J
K
[REC VOLUME BOARD]
REC LEVEL
L
R
RV301
R145
R143
R245
R243
CN322
(ORG)(BLK)
(WHT)(BLK)
[ANALOG BOARD]
[LINE IN BOARD]
PINK
BLK
WHT
(WHT)(BLK)
CN232
CNJ301
LINE IN
[LINE OUT BOARD]
R244
R144
(BRN)(BLK)
CN211
24
23
CNJ302
LINE OUT
[HP AMP BOARD]
21
22
(YEL)(BLK)
CN213
CN231
D308
D307
R342
R341
CN215
BLU
WHT
RED
(BLU)(BLK)
C358
C357
PHONE LEVEL
MIN
MAX
R249
R149
IC301
RV302
R248
13
[HP JACK BOARD]
CN321
HEADPHONS
J301
C199
C299
R146
R246
11
25
IC201
IC101
IC306
IC305
IC307
Q202
Q102
Q301
Q302
Q303
Q304
Q306
D203
D202
D204
CN125
CN126
CN123
CN122
CN121
RY302
25 26

5-5. MOUNTING DIAGRAM (ANALOG & MICROCOMPUTER BLOCK) — PCM-2500A


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19
A B C D E F G H I J K
[REC VOLUME BOARD]
REC LEVEL
RV301
CN322
[LINE IN BOARD]
CN232
CNJ301
LINE IN
[LINE OUT BOARD]
CN211
CNJ302
LINE OUT
[HP AMP BOARD]
PHONE LEVEL
MIN MAX
IC301
RV302
[HP JACK BOARD]
HEADPHONS
J301
CN321
CHASSIS GND
[ANALOG BOARD]
IC101
IC102
IC103
IC104
IC105
IC201
IC202
IC203
IC204
IC205
IC301
IC302
IC303
IC304
IC305
IC306
IC307
IC311
TO P40
[TRANSISTOR(D) BOARD]
[TRANSISTOR(E) BOARD]
IC309
IC308
TO P47
[MICROCOMPUTER BOA
TO P40
PL2
PL1
TO P3
TO P39
TO P40
25 26


14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
TO P40
[TRANSISTOR(D) BOARD]
[TRANSISTOR(E) BOARD]
IC309
IC308
[CONTROL BOARD]
CONTROL PANEL (FRONT)
COUNTER
MEMORY
RESET
MODE
START ID
ERASE
MAN
AUTO
SKIP ID
WRITE
MUSIC SCAN START
CLEAR
RENUMBER
D751
D754
D753
D752
AMS
REC MUTE
OFF
PAUSE
REC
REVIEW
PLAY
STOP
OPEN/CLOSE
FL701
FL INDICATOR
REMAINING COUNTER
PGM TIME MEMORY
EMPHASIS
PGM
AMS
COPY PROHIBIT
CAUTION
SEARCH
START ID
SKIP ID
32kHz
44.1kHz
48kHz
dB
-50
-40
-30
-20
-10
-6
-3
0
OVER
CHASSIS GND
TO P47
[MICROCOMPUTER BOARD]
IC702
IC703
IC701
IC705
IC704
IC706
IC302
IC304
IC104
IC204
Q309
Q310
Q308
Q307
D303
D301
D302
Q311
Q312
Q313
Q314
D304
PL2
PL1
TO P38
TO P39
TO P40
[TIMER SW BOARD]
S782
TIMER
REC — OFF — PLAY
SKIP
OFF ↔ ON
INPUT SELECT
DIGITAL ↔ ANALOG

5-6. SCHEMATIC DIAGRAM (ANALOG & MICROCOMPUTER BLOCK) — PCM-2500A


1
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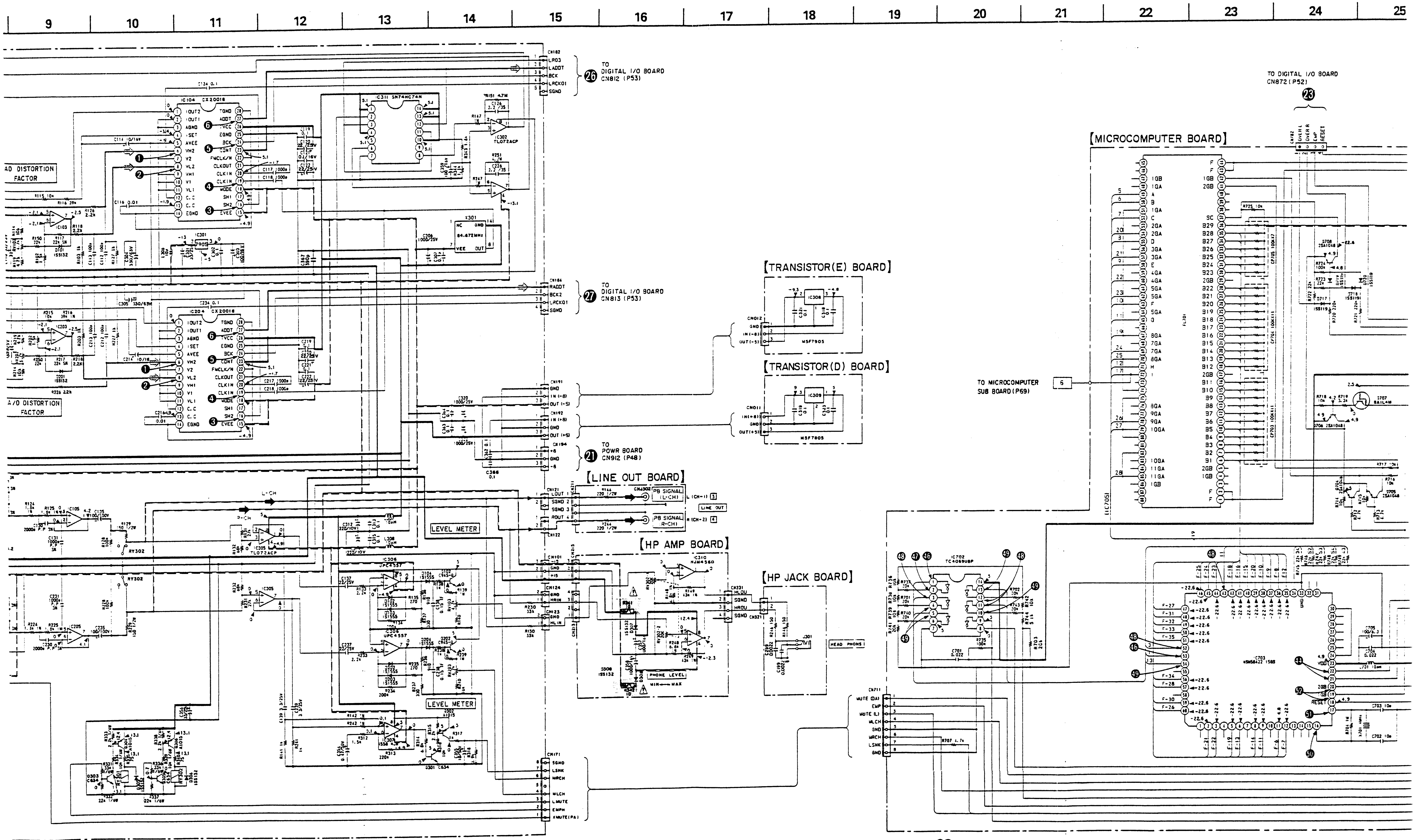
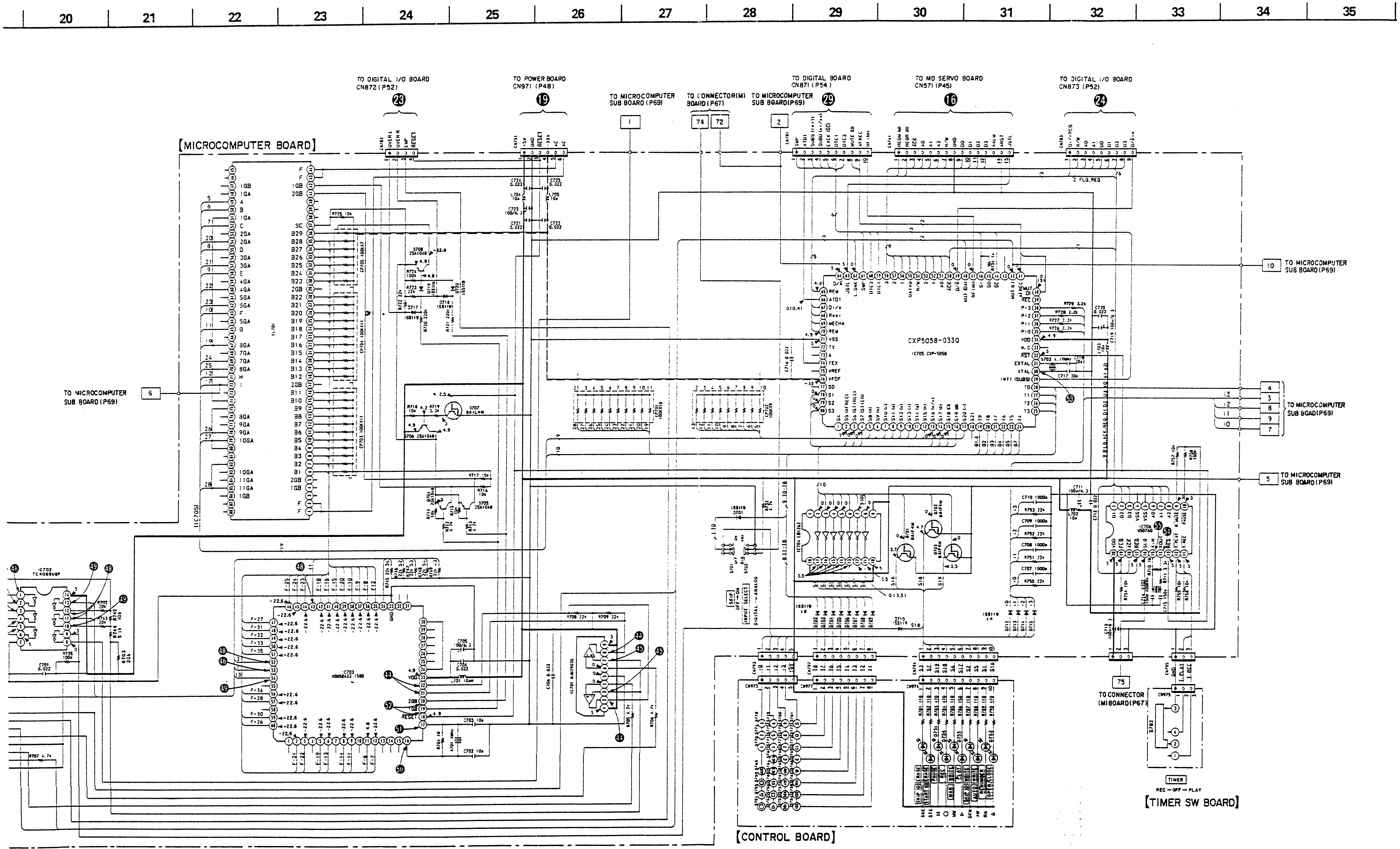
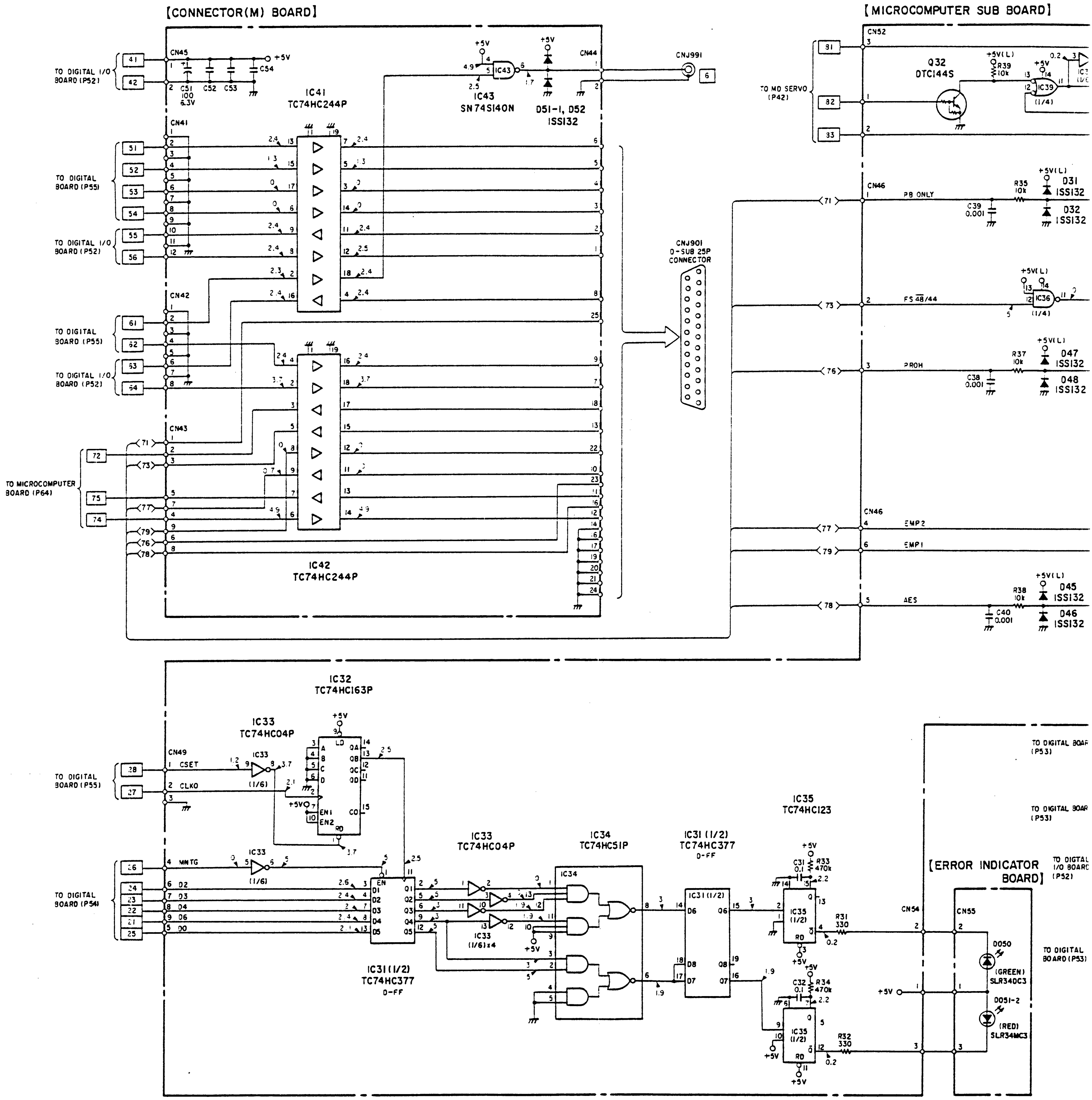
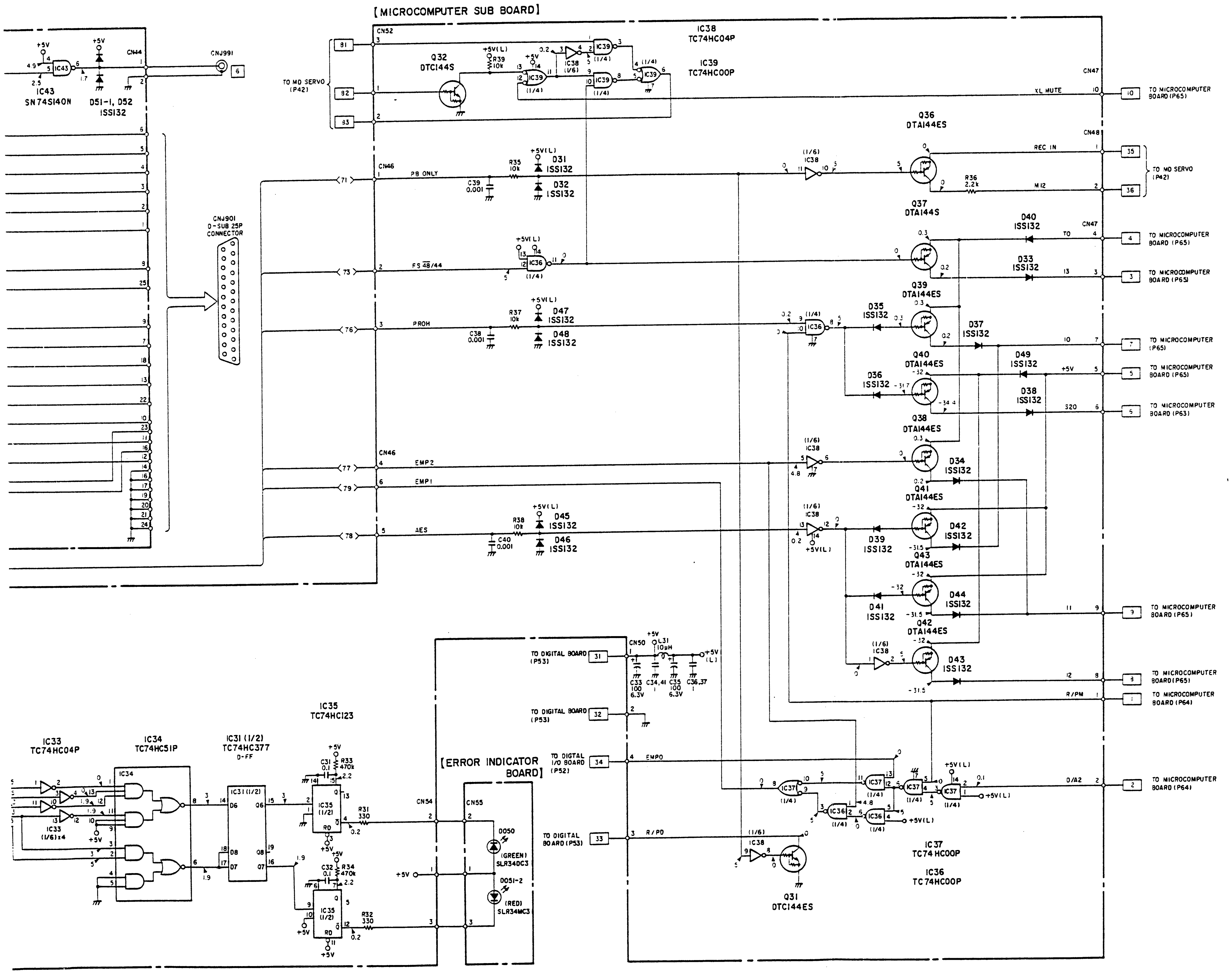
9
10
11
12
13
14
15
16
A
B
C
D
E
F
G
H
I
J
[ANALOG BOARD]
[REC VOLUME BOARD]
[LINE IN BOARD]
LINE IN REC SIGNAL (R-CH)
LINE IN REC SIGNAL (L-CH)
A/D OFFSET
AD DISTORTION FACTOR
A/D DISTORTION FACTOR
IC104 CX20018
IC204 CX20018
IC311 SN74HC74N
IC302 TL072ACP
IC101 M5238P
IC102 LF353
IC103 LF353
IC303 SAA7220P
IC304 TDA1541-N5
IC306 UPC4557
X301 84.672MHz
LEVEL METER
TO DIGITAL I/O BOARD CN812 (P53)
TO DIGITAL I/O BOARD CN813 (P53)
TO POWER BOARD CN912 (P48)
TO DIGITAL BOARD CN811 (P55)
TO POWER BOARD CN911 (P48)
[LINE OUT BOA
[HP
PB SIGNAL
L-CH
R-CH
RY301
RY302
CN300
CN181
CN182
CN183
CN184
CN191
CN192
CN194
CN171
LRO3
LADDT
BCK
LRCKO1
SGND
RADDT
BCK2
LRCKO1
LACKO1
XBCK
DADT
ERRF
256fs
GND
+18
G
-18
SGND
LSNK
MRCH
MLCH
LMUTE
EMPH
XMUTE(PA)


9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
IC104 CX20018
IC204 CX20018
C311 SN74HC74N
IC302 TL072ACP
X301 84.672MHz
A/D DISTORTION FACTOR
CN182
LRO3
LADDT
BCK
LRCKO1
SGND
TO DIGITAL I/O BOARD CN812 (P53)
CN184
RADDT
BCK2
LRCKO1
SGND
TO DIGITAL I/O BOARD CN813 (P53)
CN191
CN192
CN194
TO POWR BOARD CN912 (P48)
[TRANSISTOR(E) BOARD]
IC308
M5F7905
[TRANSISTOR(D) BOARD]
IC309
M5F7805
[LINE OUT BOARD]
PB SIGNAL (L-CH)
PB SIGNAL (R-CH)
LINE OUT
L-CH
R-CH
LEVEL METER
RY302
IC305 TL072ACP
IC306 UPC4557
[HP AMP BOARD]
IC310 NJM4560
PHONE LEVEL
MIN MAX
[HP JACK BOARD]
HEAD PHONES
CN171
SGND
LSNK
MRCH
MLCH
LMUTE
EMPH
XMUTE(PA)
TO DIGITAL I/O BOARD CN872 (P52)
[MICROCOMPUTER BOARD]
TO MICROCOMPUTER SUB BOARD (P69)
IC705
IC702 TC4069UBP
IC703 MSM58422 15GS
CN711
MUTE (DA)
EMP
MUTE (L)
MLCH
GND
MRCH
LSNK
GND
RESET


20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
[MICROCOMPUTER BOARD]
TO DIGITAL I/O BOARD CN872 (P52)
㉓
TO POWER BOARD CN971 (P48)
⑲
TO MICROCOMPUTER SUB BOARD (P69)
1
TO CONNECTOR(M) BOARD (P67)
74
72
TO MICROCOMPUTER SUB BOARD (P69)
2
TO DIGITAL BOARD CN871 (P54)
㉙
TO MD SERVO BOARD CN571 (P45)
⑯
TO DIGITAL I/O BOARD CN873 (P52)
㉔
TO MICROCOMPUTER SUB BOARD (P69)
6
TO MICROCOMPUTER SUB BOARD (P69)
10
TO MICROCOMPUTER SUB BOAD (P69)
4
3
8
9
7
TO MICROCOMPUTER SUB BOARD (P69)
5
FL701
IC705
CXP5058-033Q
IC705 CXP-5058
IC702 TC4069UBP
IC703 MSM58422 158S
IC701 KIA7035
IC704 LB1262
IC706 M50760
Q707 BA1L4M
Q708 2SA1048
Q706 2SA1048
Q705 2SA1048
X703 4.19MHz
X701 4MHz
S701
S702
SKIP OFF — ON
INPUT SELECT
DIGITAL — ANALOG
TO CONNECTOR (M) BOARD (P67)
75
SKIP ID ERASE
START ID ERASE
PAUSE
REC
MANUAL
WRITE
PLAY
SKIP ID WRITE
AUTO WRITE
RENUMBER
OPEN/CLOSE
[CONTROL BOARD]
S782
TIMER
REC — OFF — PLAY
[TIMER SW BOARD]

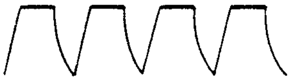
5-7. SCHEMATIC DIAGRAM (MICROCOMPUTER SUB & CONNECTOR (M) BLOCK)


[CONNECTOR(M) BOARD]
[MICROCOMPUTER SUB BOARD]
TO DIGITAL I/O BOARD (P52)
TO DIGITAL BOARD (P55)
TO DIGITAL I/O BOARD (P52)
TO DIGITAL BOARD (P55)
TO DIGITAL I/O BOARD (P52)
TO MICROCOMPUTER BOARD (P64)
TO MD SERVO (P42)
CN45
CN41
CN42
CN43
CN44
CN46
CN49
CN52
CN54
CN55
C51 100 6.3V
C52
C53
C54
IC41 TC74HC244P
IC42 TC74HC244P
IC43 SN74S140N
D51-1, D52 1SS132
CNJ991
CNJ901 D-SUB 25P CONNECTOR
Q32 DTC144S
R39 10k
IC39 (1/4)
IC36 (1/4)
PB ONLY
FS 48/44
PROH
EMP2
EMP1
AES
R35 10k
R37 10k
R38 10k
C39 0.001
C38 0.001
C40 0.001
D31 1SS132
D32 1SS132
D47 1SS132
D48 1SS132
D45 1SS132
D46 1SS132
+5V
+5V(L)
IC32 TC74HC163P
IC33 TC74HC04P
CSET
CLKO
MNTG
D2
D3
D4
D6
D0
IC33 (1/6)
IC33 (1/6)×4
IC34 TC74HC51P
IC31 (1/2) TC74HC377 D-FF
IC35 TC74HC123
C31 0.1
R33 470k
C32 0.1
R34 470k
R31 330
R32 330
[ERROR INDICATOR BOARD]
D050 (GREEN) SLR340C3
D051-2 (RED) SLR34MC3
TO DIGITAL BOARD (P53)
TO DIGITAL BOARD (P53)
TO DIGITAL I/O BOARD (P52)
TO DIGITAL BOARD (P53)
TO DIGITAL BOARD (P55)
TO DIGITAL BOARD (P54)


[MICROCOMPUTER SUB BOARD]
IC38
TC74HC04P
IC39
TC74HC00P
Q32
DTC144S
TO MD SERVO (P42)
CN52
XL MUTE
CN47
TO MICROCOMPUTER BOARD (P65)
Q36
DTA144ES
CN48
REC IN
M12
TO MD SERVO (P42)
R36 2.2k
Q37
DTA144S
D40 ISS132
D33 ISS132
Q39
DTA144ES
D35 ISS132
D37 ISS132
Q40
DTA144ES
D49 ISS132
D36 ISS132
D38 ISS132
Q38
DTA144ES
D34 ISS132
Q41
DTA144ES
D42 ISS132
D39 ISS132
Q43
DTA144ES
D44 ISS132
D41 ISS132
Q42
DTA144ES
D43 ISS132
TO MICROCOMPUTER BOARD (P63)
TO MICROCOMPUTER BOARD (P64)
R/PM
D/A2
CN46
PB ONLY
R35 10k
D31 ISS132
D32 ISS132
C39 0.001
FS 48/44
PROH
R37 10k
D47 ISS132
D48 ISS132
C38 0.001
EMP2
EMP1
AES
R38 10k
D45 ISS132
D46 ISS132
C40 0.001
CNJ901 D-SUB 25P CONNECTOR
CNJ991
CN44
IC43 SN74S140N
D51-1, D52 ISS132
TO DIGITAL BOARD (P53)
CN50
L31 10μH
C33 100 6.3V
C34,41 C35 100 6.3V C36,37
TO DIGITAL I/O BOARD (P52)
EMPO
TO DIGITAL BOARD (P53)
R/PD
IC37 TC74HC00P
IC36 TC74HC00P
Q31 DTC144ES
[ERROR INDICATOR BOARD]
CN54
CN55
D050 (GREEN) SLR340GC3
D051-2 (RED) SLR34MC3
IC33 TC74HC04P
IC34 TC74HC51P
IC31 (1/2) TC74HC377 D-FF
IC35 TC74HC123
R33 470k
C31 0.1
R34 470k
C32 0.1
R31 330
R32 330
+5V
+5V(L)

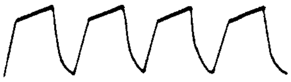
Waveform List

❶ IC104 ⑥, IC204 ⑥



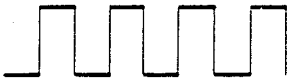
1.6Vp-p T = 2.04 μS

❷ IC104 ⑧, IC204 ⑧



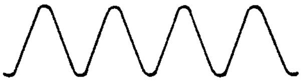
2Vp-p T = 2.04 μS

❸ IC104 ⑯, IC204 ⑯



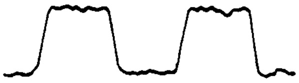
5Vp-p T = 2.04 μS

❹ IC104 ⑲, IC204 ⑲



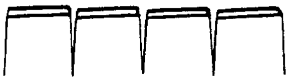
200mVp-p T = 12 μS

❺ IC104 ㉔, IC204 ㉔



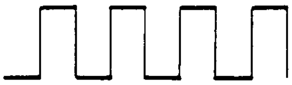
5Vp-p T = 3.2 μS

❻ IC104 ㉗, IC204 ㉗



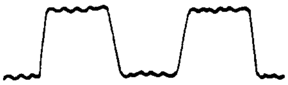
5Vp-p T = 21 μS

❼ IC303 ①



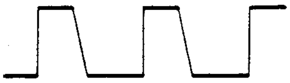
5Vp-p T = 20.6 μS

❽ IC303 ② IC851 ㊾
IC808 ㉓, ㉔ IC854 ②



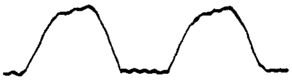
5Vp-p T = 0.32 μS

❾ IC303 ④



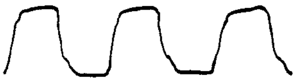
5Vp-p T = 10.2 μS

❿ IC303 ⑪



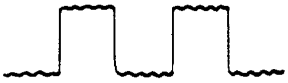
5Vp-p T = 0.08 μS

⓫ IC303 ⑯
IC304 ②, ④



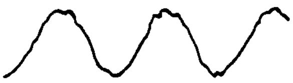
5Vp-p T = 0.16 μS

⓬ IC303 ⑱
IC304 ①



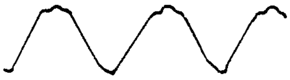
5Vp-p T = 5.1 μS

⓭ IC401 ⑯



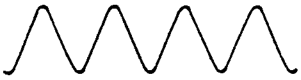
PLAY mode 1.8 Vp-p
T = 7.5 mS
EE mode DC 0.5V

⓮ IC401 ⑰



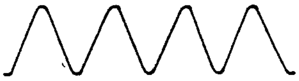
PLAY mode 1.8 Vp-p
T = 7.5 mS
EE mode DC 0.5V

⓯ IC402 ⑦



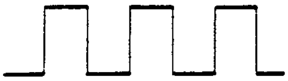
PLAY mode 1.9 Vp-p
T = 2 mS
EE mode DC 2.5V

⓰ IC403 ⑥



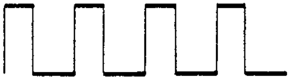
PLAY mode 1.9 Vp-p
T = 1.2 mS
EE mode DC 2.1V

⓱ IC403 ⑦



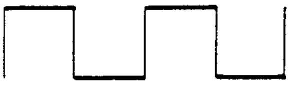
PLAY mode 5 Vp-p
1.2 mS
EE mode DC 0V

⓲ IC501 ①
IC502 ⑫



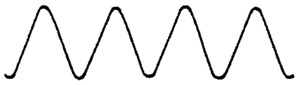
5Vp-p T = 0.24～0.58 S

⓳ IC502 ②



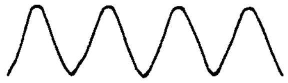
5Vp-p T = 0.24～0.58 S

⑳ IC510 ㉛
IC511 ⑩
IC512 ㊻



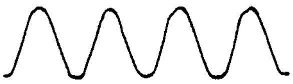
5Vp-p T ≒ 0.24 μS

㉑ IC511 ⑪



5Vp-p T ≒ 0.24 μS

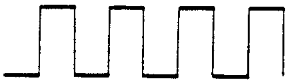
㉒ IC511 ⑬



5Vp-p T ≒ 0.24 μS

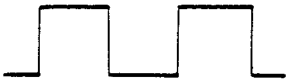
㉓ IC512 ㉚, ㉛

Note: ㉚ is out of phase with ㉛



0.7Vp-p T ≒ 1mS

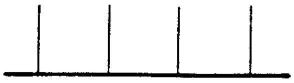
㉔ IC951 ③, ④, ⑤



REC mode { 1.5 Vp-p
T = 15 mS

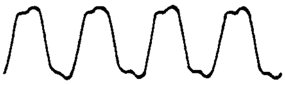
PLAY mode { ③, ④ DC 2.6V
⑤ DC 1.7V

㉕ IC513 ⑥
IC514 ⑪
IC518 ㊹



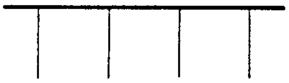
5Vp-p T = 30 mS

㉖ IC513 ⑪
IC518 ①, ㊽



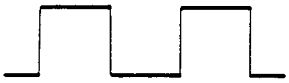
5Vp-p T ≒ 0.1 μS

㉗ IC515 ㉗



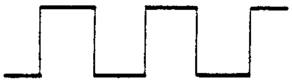
4Vp-p T = 30 mS

㉘ IC518 ②



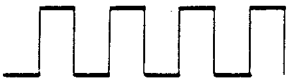
5Vp-p T ≒ 80 μS

㉙ IC518 ⑦, ⑨



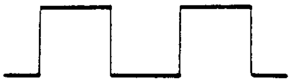
5Vp-p f ≒ 674 Hz

㉚ IC518 ⑪



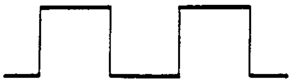
5Vp-p T = 1.25 mS

㉛ IC518 ⑬



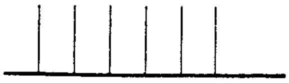
5Vp-p T ≒ 6.7 μS

㉜ IC518 ⑭



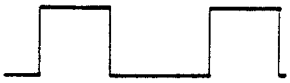
5Vp-p T = 110 μS

㉝ IC518 ⑮



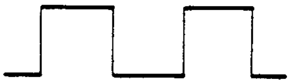
5Vp-p T = 430 μS

㉞ IC518 ⑱



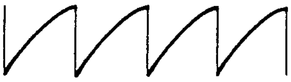
5Vp-p T = 15 mS

㉟ IC518 ㊶, ㊺
IC807 ㉑, ㉕, ㉜
IC854 ④, ㉟



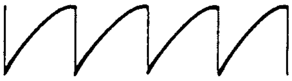
5Vp-p T = 30 mS

㊱ IC521 ⑭



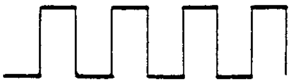
1.5Vp-p T ≒ 1.5 mS

㊲ IC522 ⑧, ⑪



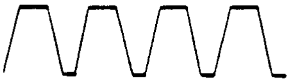
1.4Vp-p T ≒ 1.5 mS

㊳ IC523 ③



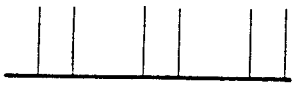
1.6Vp-p T ≒ 1.5 mS

㊴ IC951 ①



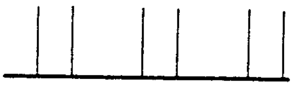
1.4Vp-p T = 2.4 μS

㊵ IC527 ⑰



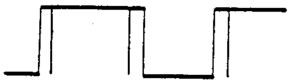
5Vp-p T=15 mS

㊶ IC527 ⑱



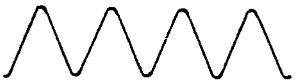
5Vp-p T=30 mS

㊷ IC527 ㉘



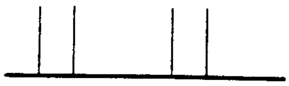
5Vp-p T=30 mS

㊸ IC533 ⑦



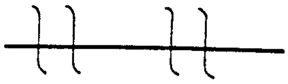
2Vp-p T≒1.5 mS

㊹ IC701 ②, ⑧
IC703 ㉑, ㉒



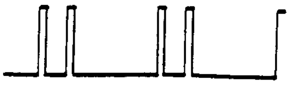
4Vp-p T=19 mS

㊺ IC701 ③, ⑦



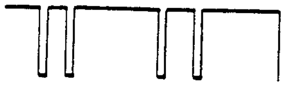
3Vp-p T=19 mS

㊻ IC702 ①
IC703 (53)



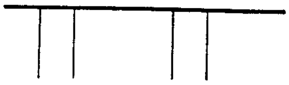
5Vp-p T=85 mS

㊼ IC702 ②



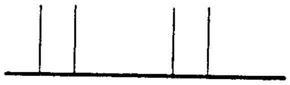
5Vp-p T=8.5 mS

㊽ IC702 ③, ⑪, ⑫
IC703 ㊸, (52)



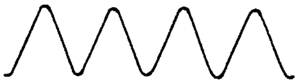
5Vp-p T=19 mS

㊾ IC702 ④, ⑤, ⑩, ⑬
IC703 (54)



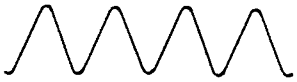
5Vp-p T=19 mS

㊿ IC703 ⑯



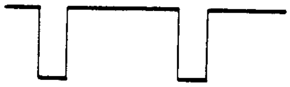
3.5Vp-p T=0.25 μS

(51) IC703 ⑰



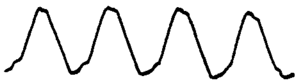
1.8Vp-p T=0.25 μS

(52) IC703 ⑲, ⑳



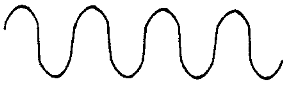
5Vp-p T=10 mS

(53) IC705 ㉚



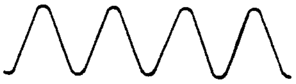
5.2Vp-p T=6 mS

(54) IC706 ⑭



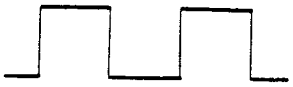
5Vp-p T=2.6 μS

(55) IC706 ⑮



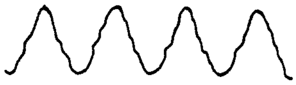
4.5Vp-p T=2.6 μS

(56) IC807 ⑧
IC808 ㊻
IC851 ⑯
IC854 ㊲



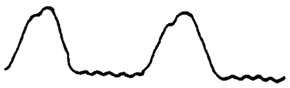
5Vp-p T=15 mS

(57) IC807 ⑬



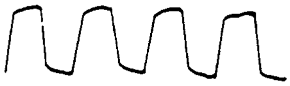
5Vp-p T=51.5 nS

(58) IC807 ⑭



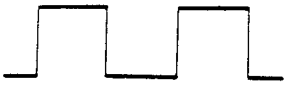
5Vp-p T=0.22 μS

(59) IC807 ⑲



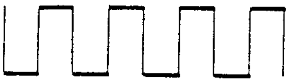
5Vp-p T=0.1 μS

(60) IC807 ㉚
IC808 ⑰, ㉗
IC851 ㉜, ㉝, (51)
IC854 ③, ㊷



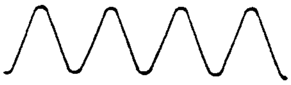
5Vp-p T = 20 μS

(61) IC807 ㉛
IC808 ㉕



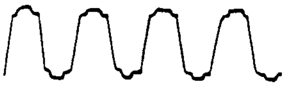
5Vp-p T = 10 μS

(62) IC807 ㊿



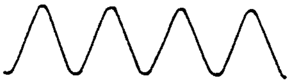
2.4Vp-p T = 55 nS

(63) IC801 ⑤
IC802 ⑤
IC807 (65)



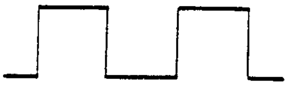
5Vp-p T = 0.21 μS

(64) IC808 ⑫



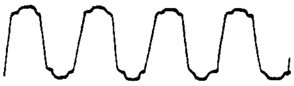
2.5Vp-p T = 40 nS

(65) IC951 ⑩



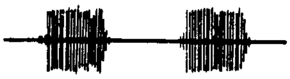
REC mode 1.2 Vp-p
T = 15 mS
PLAY mode DC 3V

(66) IC808 ⑲



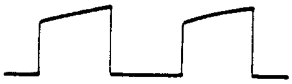
5Vp-p T = 0.16 μS

(67) TP801



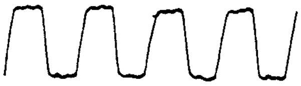
0.7Vp-p T = 15 mS

(68) IC951 ㉗, ㉞



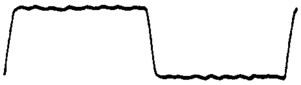
REC mode 3.2 Vp-p
T = 15 mS
PLAY mode DC 1.6V

(69) IC851 ㊼



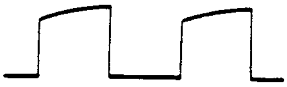
5Vp-p T = 82 nS

(70) IC851 ㊽



5Vp-p T = 0.32 μS

(71) IC951 ㉙, ㉜

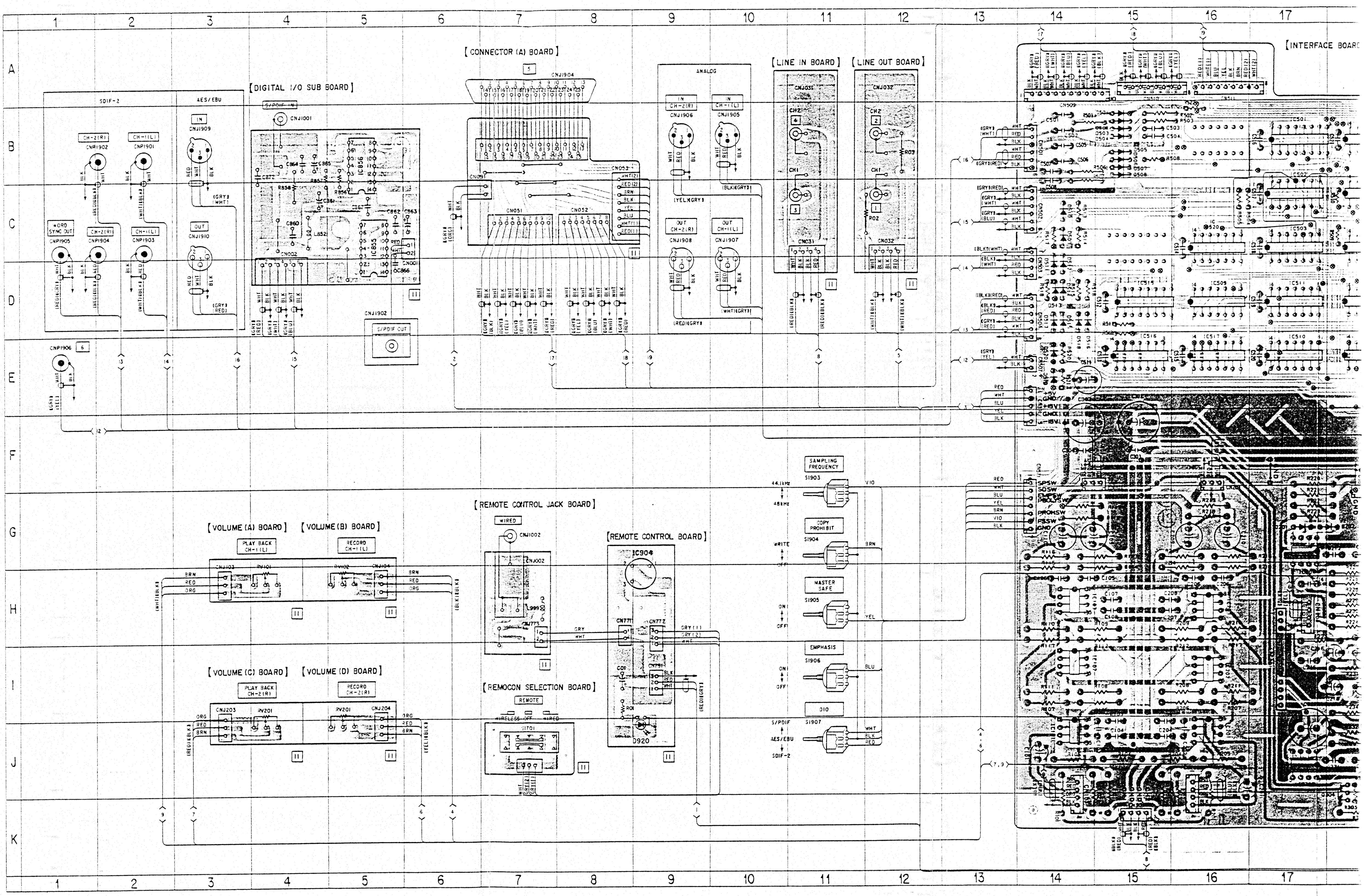


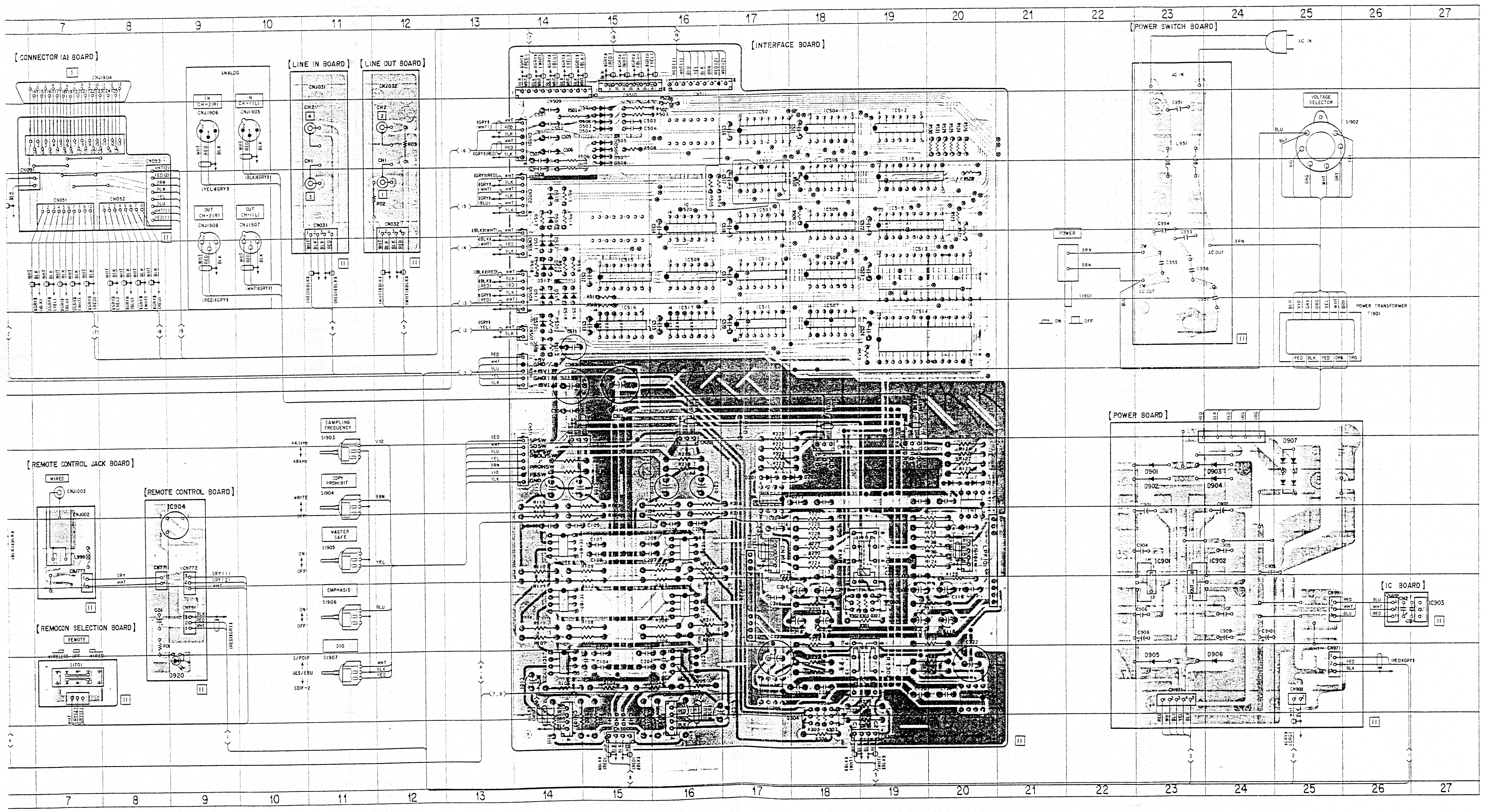
REC mode 1.4 Vp-p
T = 15 mS
PLAY mode DC 3V

5-8. MOUNTING DIAGRAM (INTERFACE UNIT) PCM-2500B

(Add 1000 to the current reference No.)

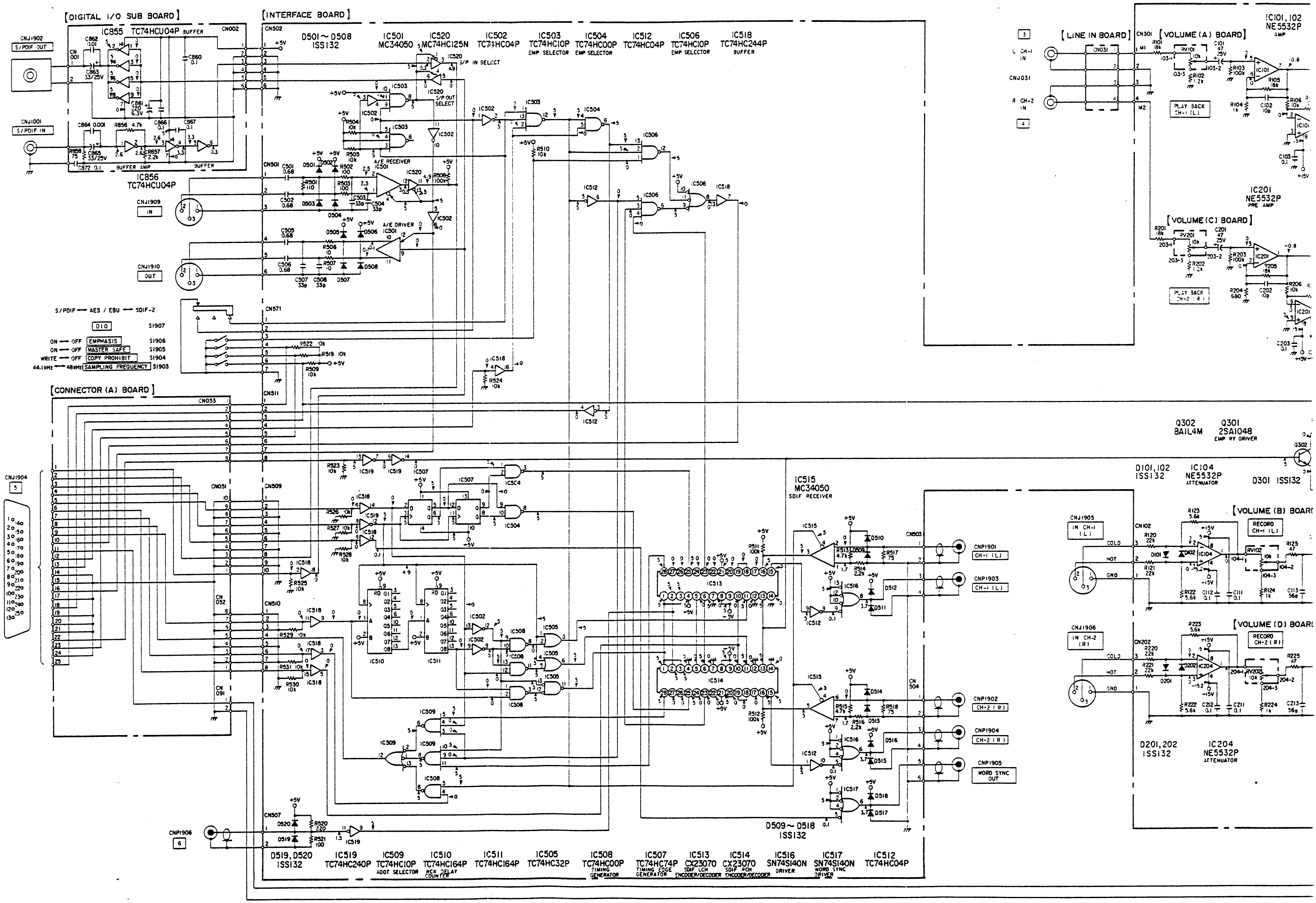
Ref. No.		Ref. No.	
D101	G-20	IC507	E-18
D102	G-20	IC508	D-18
D201	G-17	IC509	D-16
D202	G-18	IC510	E-17
D301	I-19	IC511	D-17
D302	K-18	IC512	B-19
D501	B-15	IC513	D-19
D502	B-15	IC514	E-19
D503	B-15	IC515	D-15
D504	B-15	IC516	E-15
D505	B-15	IC517	E-16
D506	B-15	IC518	C-19
D507	C-15	IC519	D-19
D508	C-15	IC520	D-16
D509	D-14	IC855	D-5
D510	C-14	IC856	B-5
D511	D-14	IC901	I-23
D512	D-14	IC902	I-24
D513	D-14	IC903	I-27
D514	D-14	IC904	H-9
D515	E-14	Q301	I-18
D516	E-14	Q302	I-19
D517	E-14	Q303	K-18
D518	E-14	Q304	K-18
D519	E-14		
D520	E-14		
D901	G-23		
D902	G-23		
D903	G-24		
D904	G-24		
D905	J-23		
D906	J-24		
D907	G-25		
D920	J-9		
IC101	J-14		
IC102	I-14		
IC103	H-14		
IC104	H-20		
IC105	K-20		
IC201	J-16		
IC202	I-16		
IC203	H-16		
IC204	H-17		
IC205	J-17		
IC501	B-17		
IC502	C-17		
IC503	D-17		
IC504	B-18		
IC505	D-18		
IC506	C-18		

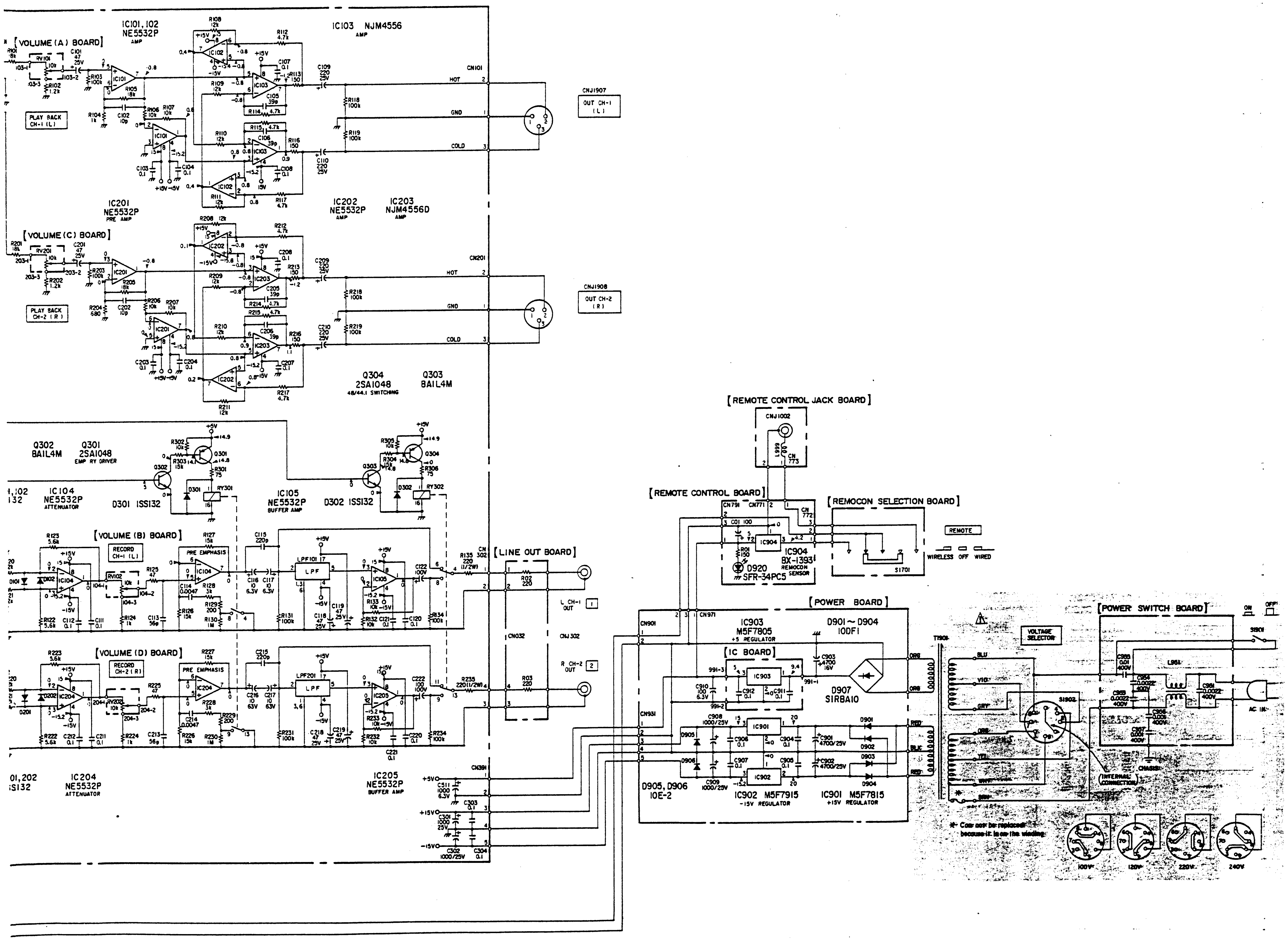

[DIGITAL I/O SUB BOARD]
[CONNECTOR (A) BOARD]
ANALOG
[LINE IN BOARD]
[LINE OUT BOARD]
[INTERFACE BOARD
SDIF-2
4ES/EBU
CH-2(R)
CH-1(L)
IN
OUT
WORD SYNC OUT
S/PDIF OUT
CNJ1904
CNJ1902
CNJ1909
CNJ1910
CNJ1906
CNJ1905
CNJ1908
CNJ1907
[VOLUME (A) BOARD]
[VOLUME (B) BOARD]
PLAY BACK CH-1(L)
RECORD CH-1(L)
[VOLUME (C) BOARD]
[VOLUME (D) BOARD]
PLAY BACK CH-2(R)
RECORD CH-2(R)
[REMOTE CONTROL JACK BOARD]
WIRED
[REMOTE CONTROL BOARD]
IC904
D920
[REMOCON SELECTION BOARD]
REMOTE
SAMPLING FREQUENCY
S1903
44.1kHz
48kHz
COPY PROHIBIT
S1904
WRITE
OFF
MASTER SAFE
S1905
ON
OFF
EMPHASIS
S1906
ON
OFF
D10
S1907
S/PDIF
AES/EBU
SDIF-2
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
A
B
C
D
E
F
G
H
I
J
K


7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
[CONNECTOR (A) BOARD]
CNJ1904
CN091
CN051
CN052
CN053
ANALOG
IN CH-2(R)
IN CH-1(L)
CNJ1906
CNJ1905
OUT CH-2(R)
OUT CH-1(L)
CNJ1908
CNJ1907
[LINE IN BOARD]
CNJ031
CN031
[LINE OUT BOARD]
CNJ032
CN032
[INTERFACE BOARD]
[POWER SWITCH BOARD]
AC IN
VOLTAGE SELECTOR
S1902
POWER
S1901
ON
OFF
POWER TRANSFORMER
T1901
[POWER BOARD]
[IC BOARD]
IC903
IC901
IC902
D901
D902
D903
D904
D905
D906
D907
CN901
CN971
CN991
SAMPLING FREQUENCY
S1903
44.1kHz
48kHz
COPY PROHIBIT
S1904
WRITE
OFF
MASTER SAFE
S1905
ON
OFF
EMPHASIS
S1906
ON
OFF
D10
S1907
S/PDIF
AES/EBU
SDIF-2
[REMOTE CONTROL JACK BOARD]
WIRED
CNJ1002
[REMOTE CONTROL BOARD]
IC904
D920
CN771
CN772
CN791
[REMOCON SELECTION BOARD]
REMOTE
WIRELESS
OFF
WIRED
S1701

5-9. SCHEMATIC DIAGRAM (INTERFACE UNIT) PCM-2500B

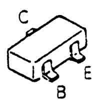
(Add 1000 to the current reference No.)


[DIGITAL I/O SUB BOARD]
IC855 TC74HCU04P BUFFER
CNJ1902 S/PDIF OUT
CNJ1001 S/PDIF IN
BUFFER AMP
BUFFER
IC856 TC74HCU04P
[INTERFACE BOARD]
D501~D508 ISS132
IC501 MC34050
IC520 MC74HC125N
IC502 TC74HC04P
IC503 TC74HC10P EMP SELECTOR
IC504 TC74HC00P EMP SELECTOR
IC512 TC74HC04P
IC506 TC74HC10P EMP SELECTOR
IC518 TC74HC244P BUFFER
S/P IN SELECT
S/P OUT SELECT
A/E RECEIVER
A/E DRIVER
CNJ1909 IN
CNJ1910 OUT
S/PDIF — AES / EBU — SDIF-2
DIO S1907
ON — OFF EMPHASIS S1906
ON — OFF MASTER SAFE S1905
WRITE — OFF COPY PROHIBIT S1904
44.1kHz — 48kHz SAMPLING FREQUENCY S1903
[CONNECTOR (A) BOARD]
CNJ1904
IC515 MC34050 SDIF RECEIVER
IC513
IC514
CNP1901 CH-1 (L)
CNP1903 CH-1 (L)
CNP1902 CH-2 (R)
CNP1904 CH-2 (R)
CNP1905 WORD SYNC OUT
CNP1906
D509~D518 ISS132
D519, D520 ISS132
IC519 TC74HC240P
IC509 TC74HC10P ADDT SELECTOR
IC510 TC74HC164P WCK DELAY COUNTER
IC511 TC74HC164P
IC505 TC74HC32P
IC508 TC74HC00P TIMING GENERATOR
IC507 TC74HC74P TIMING EDGE GENERATOR
IC513 CX23070 SDIF LCH ENCODER/DECODER
IC514 CX23070 SDIF RCH ENCODER/DECODER
IC516 SN74S140N DRIVER
IC517 SN74S140N WORD SYNC DRIVER
IC512 TC74HC04P
[LINE IN BOARD]
L CH-1 IN
R CH-2 IN
CNJ031
[VOLUME (A) BOARD]
IC101, 102 NE5532P AMP
PLAY BACK CH-1 (L)
IC201 NE5532P PRE AMP
[VOLUME (C) BOARD]
PLAY BACK CH-2 (R)
Q302 BA1L4M
Q301 2SA1048 EMP RY DRIVER
D101, 102 ISS132
IC104 NE5532P ATTENUATOR
D301 ISS132
[VOLUME (B) BOARD]
RECORD CH-1 (L)
CNJ1905 IN CH-1 (L)
COLD
HOT
GND
CNJ1906 IN CH-2 (R)
[VOLUME (D) BOARD]
RECORD CH-2 (R)
D201, 202 ISS132
IC204 NE5532P ATTENUATOR

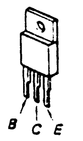

[VOLUME (A) BOARD]
IC101, 102 NE5532P AMP
IC103 NJM4556 AMP
PLAY BACK CH-1 (L)
CN101
HOT
GND
COLD
CNJ1907
OUT CH-1 (L)
[VOLUME (C) BOARD]
IC201 NE5532P PRE AMP
IC202 NE5532P AMP
IC203 NJM4556D AMP
PLAY BACK CH-2 (R)
CN201
CNJ1908
OUT CH-2 (R)
Q304 2SA1048 48/44.1 SWITCHING
Q303 BA1L4M
Q302 BA1L4M
Q301 2SA1048 EMP RY DRIVER
D301 ISS132
D302 ISS132
RY301
RY302
IC104 NE5532P ATTENUATOR
IC105 NE5532P BUFFER AMP
[VOLUME (B) BOARD]
RECORD CH-1 (L)
PRE EMPHASIS
LPF101
LPF
[LINE OUT BOARD]
L CH-1 OUT
R CH-2 OUT
CN032
CNJ302
[VOLUME (D) BOARD]
RECORD CH-2 (R)
LPF201
IC204 NE5532P ATTENUATOR
IC205 NE5532P BUFFER AMP
CN391
+5V
+15V
-15V
[REMOTE CONTROL JACK BOARD]
CNJ1002
[REMOTE CONTROL BOARD]
CN791
CN771
CN772
IC904
IC904 BX-1393 REMOCON SENSOR
D920 SFR-34PC5
[REMOCON SELECTION BOARD]
REMOTE
WIRELESS OFF WIRED
S1701
[POWER BOARD]
CN971
CN901
CN931
IC903 M5F7805 +5 REGULATOR
D901~D904 10DF1
[IC BOARD]
IC903
D907 S1RBA10
IC901
IC902
D905, D906 10E-2
IC902 M5F7915 -15V REGULATOR
IC901 M5F7815 +15V REGULATOR
[POWER SWITCH BOARD]
VOLTAGE SELECTOR
T901
S901
S902
L901
ON OFF
AC IN
CHASSIS
(INTERNAL CONNECTION)
ORG
RED
BLK
BLU
VIO
GRY
YEL
WHT
BRN
✳ Core must be replaced because it is on the winding.
100V
120V
220V
240V

. Semiconductor Lead Layouts

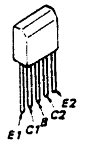
2SA812
DTC144EK



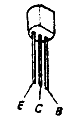
2SA985A
2SB1015
2SB1094-L
2SC2275-P



2SA995-F
2SC2291



2SD1387
2SB1013
2SA1015
2SC945
2SC2001-L



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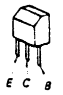
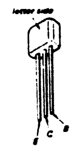
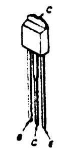
2SC2676



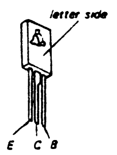
2SA1175


letter side
E
C
B

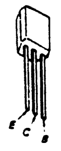
2SA1242LB
2SB1040A



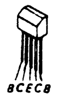
2SB458-R


letter side
E
C
B

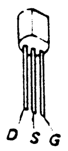
DTA144ES
DTC144ES
2SC634SP
2SC3399
2SC3400
2SA1346



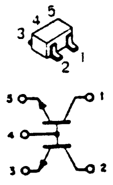
2SC2259-F



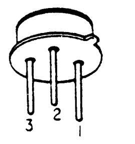
2SK152



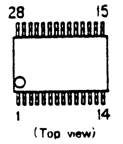
FMW2


5
4
3
2
1
5
4
3
1
2

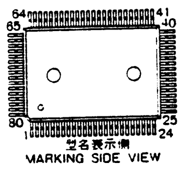
BX1393



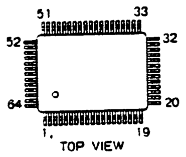
CXA1046M


28
15
1
14
(Top view)

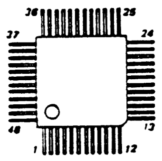
CXD1009Q
CXP5058


64
41
65
40
80
25
1
24
型名表示側
MARKING SIDE VIEW

CXD1146Q
CXD1008Q


51
33
52
32
64
20
1
19
TOP VIEW

CXA1045Q
CXD1052Q


36
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37
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48
13
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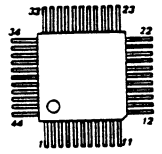
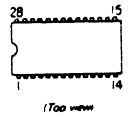
12

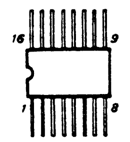
CXD1110Q


33
23
34
22
44
12
1
11

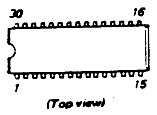
CX23043
CX20018
TDA1541


28
15
1
14
(Top view)

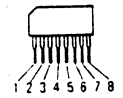
CX20084



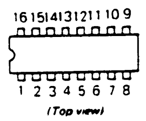
CX20174


30
16
1
15
(Top view)

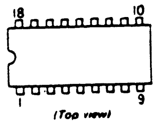
CX23065



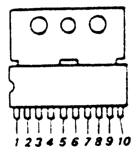
TC4051BP
TC4538BP
HD14538BP
NJU8001D
TC4053BP
TC74HC163P
TC74HC175P


16 15 14 13 12 11 10 9
1 2 3 4 5 6 7 8
(Top view)

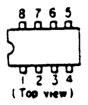
LB1262
MB81416-10P


18
10
1
9
(Top view)

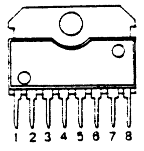
LB1640N


1 2 3 4 5 6 7 8 9 10

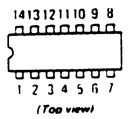
NJM4558
LF353N/GLEA312
M5238P
NJM4560D-D
TL072ACP
μPC358C
μPC4557C


8 7 6 5
1 2 3 4
(Top view)

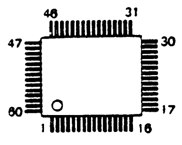
MB3763PS



SN74S140N
TC74HC4066P
MC74HC132N
SN74LS624N
SN74LS74N
TC4066BP
TC4069UBP
TC74HCU04P
TC74HC00P
TC74HC04P
TC74HC86P
μPC324C
μPC339C
SN74HC74N
MC74HC125N


14 13 12 11 10 9 8
1 2 3 4 5 6 7
(Top view)

MSM58422-15GS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31
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30
60
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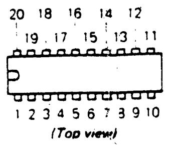
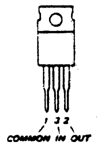
16

MARKING SIDE VIEW

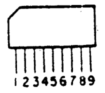
TC74HC240P
TC74HC244P
M50760-428P


20 18 16 14 12
19 17 15 13 11
1 2 3 4 5 6 7 8 9 10
(Top view)

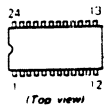
NJM79M05A
M5F7905


1 3 2
COMMON IN OUT

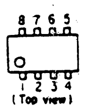
NJM2903S



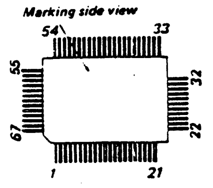
SAA7220P


24
13
1
12
(Top view)

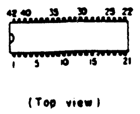
NJM4556D
TLC272CP
NE5532P


8 7 6 5
1 2 3 4
(Top view)

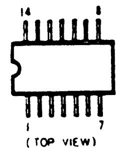
TMP47C460AF


Marking side view
54
33
55
32
67
22
1
21

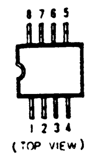
TMP47C800N


42 40 35 30 25 22
1 5 10 15 21
(Top view)

μPC324C
μPC324G2


14
8
1
7
(TOP VIEW)

μPC393G2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1 2 3 4
(TOP VIEW)

M5F7805
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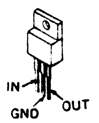
μPC7815H



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HZ2CLL
HZ5BLL
HZ9B2L
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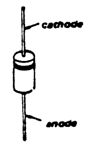
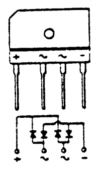
1S1555
10E2N
10YD1.3A


cathode
anode

RBV-602-01



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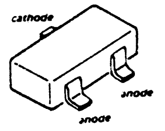
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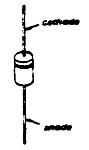
anode
anode

10DF6
30DF1-FC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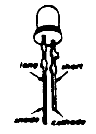
anode

SLR-34DU5
SLR-34PC5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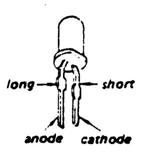
short
anode
cathode

TLR123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anode
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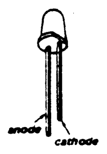
SLR-34DC3
SLR-34MC3


anode
cathode

SECTION 6
EXPLODED VIEWS AND PARTS LIST

NOTE:

The mechanical parts with no reference number in the exploded views are not supplied.

Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

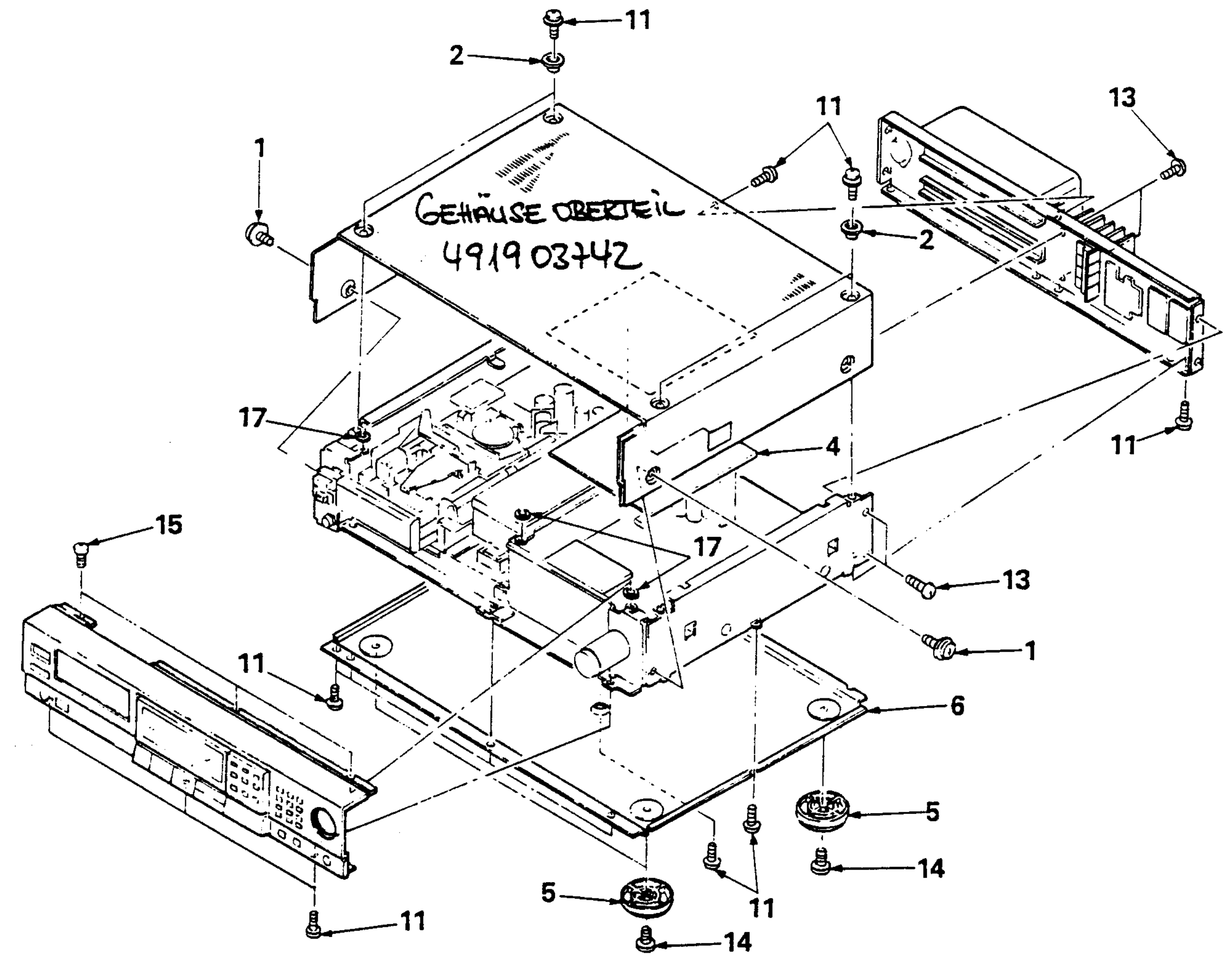
The construction parts of an assembled part are indicated with a collation number in the remark column.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

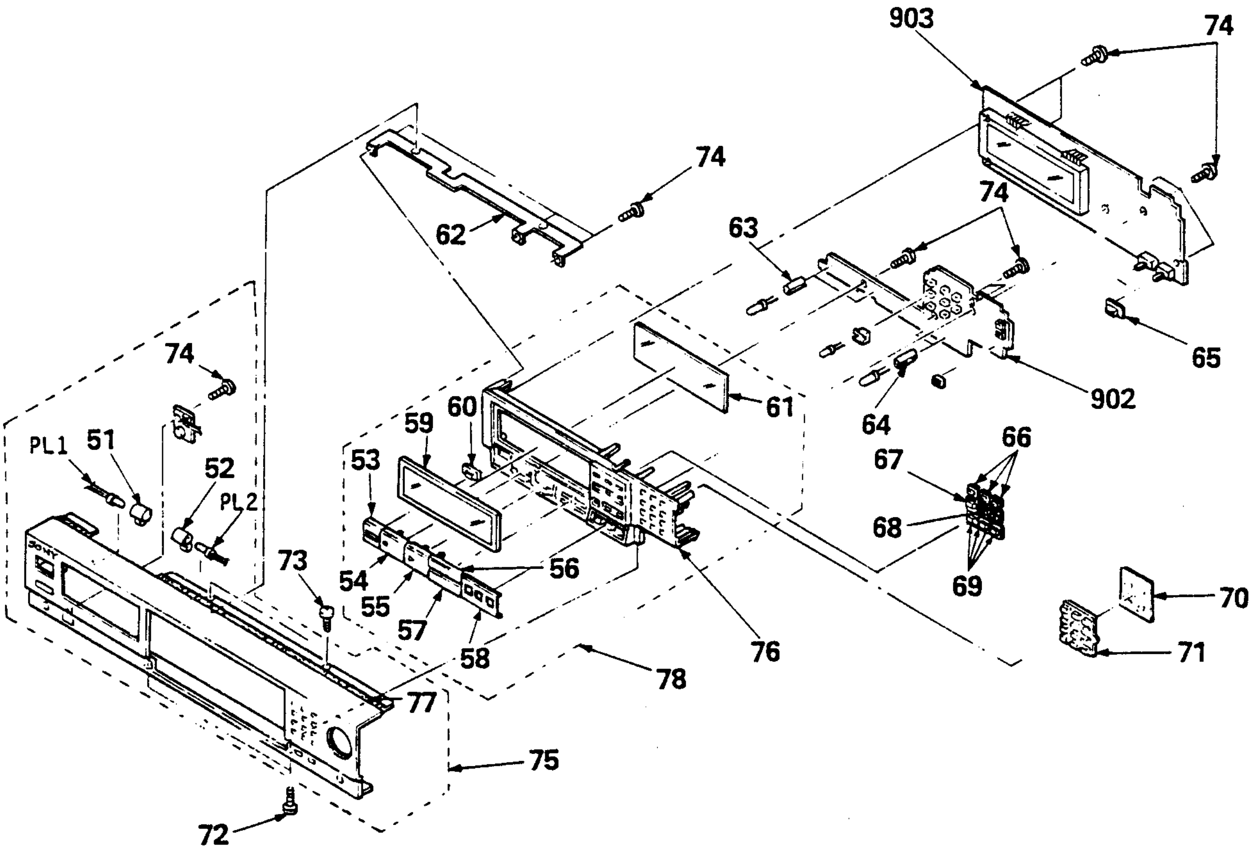
(1) DIGITAL TAPE RECORDER (PCM-2500A)

Outer Casing Block



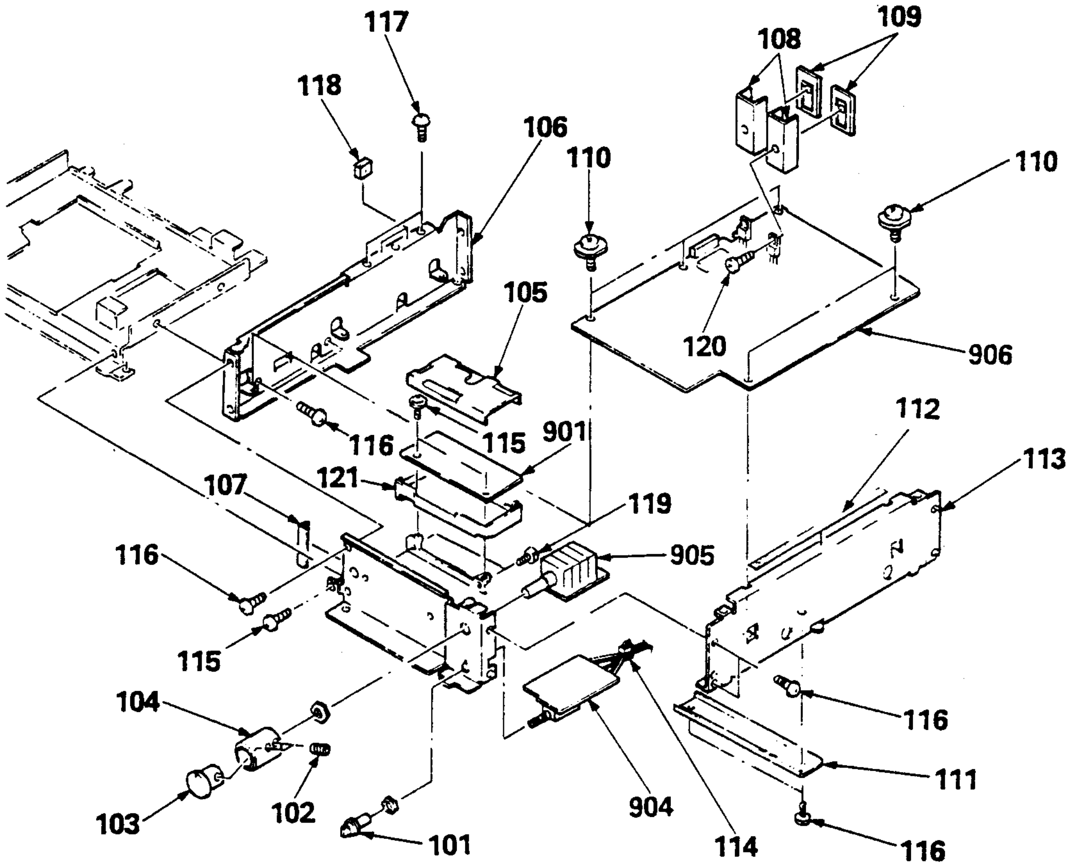
No.	Part No.	Description	Remarks
1	4-889-321-31	SCREW	
2	3-576-298-11	ESCUTCHEON	
4	*4-919-043-01	DUMPER (A)	
5	X-4918-919-1	LEG ASSY	
6	*4-919-036-01	PLATE, BOTTOM	
11	7-682-547-09	SCREW +B 3X6	
13	3-703-685-21	SCREW (+BV 3X8)	
14	7-682-561-09	SCREW +B 4X8	
15	7-621-775-20	SCREW +B 2.6X5	
17	*3-311-623-31	SPACER	

Front Panel Block



No.	Part No.	Description	Remarks
51	*4-918-989-01	COVER (LEFT), LAMP	
52	*4-918-990-01	COVER (RIGHT), LAMP	
53	X-4918-916-1	BASE ASSY, EJECT	
54	X-4918-907-1	BUTTON ASSY, STOP	
55	X-4918-906-1	BUTTON ASSY, FWD	
56	X-4918-908-1	BUTTON ASSY, AMS	
57	X-4918-909-1	BUTTON ASSY, FR	
58	X-4918-915-1	BASE ASSY, REC	
59	4-918-927-01	GLASS, WINDOW, METER	
60	*4-918-928-01	PLATE, INDICATION, EJECT	
61	4-918-981-01	FILTER, FL TUBE	
62	*4-919-015-01	BRACKET, METER	
63	*4-911-676-01	SPACER, LED	
64	4-911-676-21	SPACER, LED	
65	4-918-972-01	KNOB, SLIDE SW	
66	4-918-924-01	BUTTON, COUNTER	
67	4-918-975-11	BUTTON, ID (AUTO)	
68	4-918-975-01	BUTTON, ID (MAN)	
69	4-918-975-21	BUTTON, ID	
70	*4-918-982-01	CUSHION, TEN KEY	
71	4-918-998-01	KEY, TEN	
72	7-685-134-19	SCREW +BTP 2.6X8 TYPE2 N-S	
73	7-621-775-10	SCREW +B 2.6X4	
74	7-685-131-19	SCREW +BTP 2.6X4 TYPE2 N-S	
75	A-2310-364-A	PANEL (M) ASSY, FRONT	
76	X-4918-934-2	ESUTCHEON ASSY, METER	
77	3-831-441-XX	SPACER (B)	
78	A-2162-022-A	HOLDER ASSY, METER	
902	A-2012-110-A	MOUNTED PCB, CONTROL	
903	A-2019-207-A	MOUNTED PCB, MAIN MICROCOMPUTER	
PL1	1-518-614-11	LAMP, PILOT	
PL2	1-518-614-11	LAMP, PILOT	

Audio Block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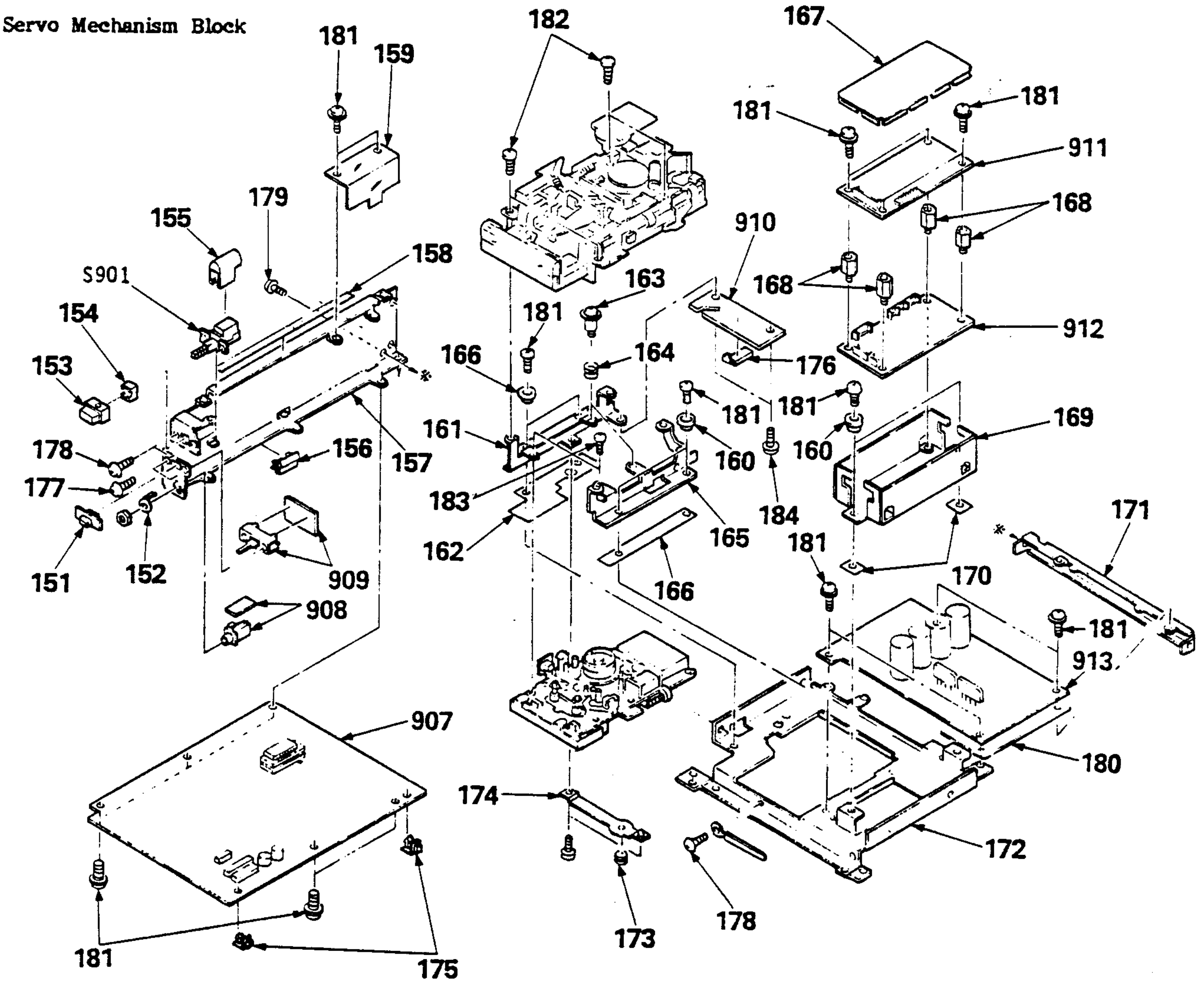
No.	Part No.	Description	Remarks
101	4-918-936-01	KNOB, HEADPHONE	
102	3-701-505-00	SET SCREW, DOUBLE POINT 3X3	
103	4-918-994-01	KNOB (RIGHT), REC	
104	4-918-943-01	KNOB (LEFT), REC	
105	*4-919-099-02	CASE (UPPER), SHIELD	
106	*4-919-027-01	PLATE (C), SIDE	
107	*4-854-719-11	CUSHION (B)	
108	*4-908-954-01	HEAT SINK, TR	
109	4-887-707-00	RETAINER, TRANSFORMER	
110	X-4908-910-1	SCREW ASSY (+ BVTT)	
111	*4-919-011-01	PLATE, RELAY	
112	3-831-441-XX	SPACER (B)	
113	*4-919-026-01	PLATE (R), SIDE	
114	3-701-748-00	CLAMP	
115	4-886-821-11	SCREW, S TIGHT, +PTTWH 3X6	
116	3-703-685-21	SCREW (+BV 3X8)	
117	7-682-147-01	SCREW +BVTT 3X6 (S)	
119	7-685-870-09	SCREW +BVTT 3X5 (S)	
118	*4-911-608-01	CUSHION, RUBBER	
120	7-682-147-15	SCREW, TR	
121	*4-923-701-02	CASE (LOWER), SHIELD	
901	A-2019-208-A	MOUNTED PCB, SUB, MICRO COMPUTER	
904	A-2010-243-A	MOUNTED PCB, HP AMP	
905	A-2010-258-A	MOUNTED PCB, REC VOL	
906	A-2010-245-A	MOUNTED PCB, ANNALOGUE	

Servo Mechanism Block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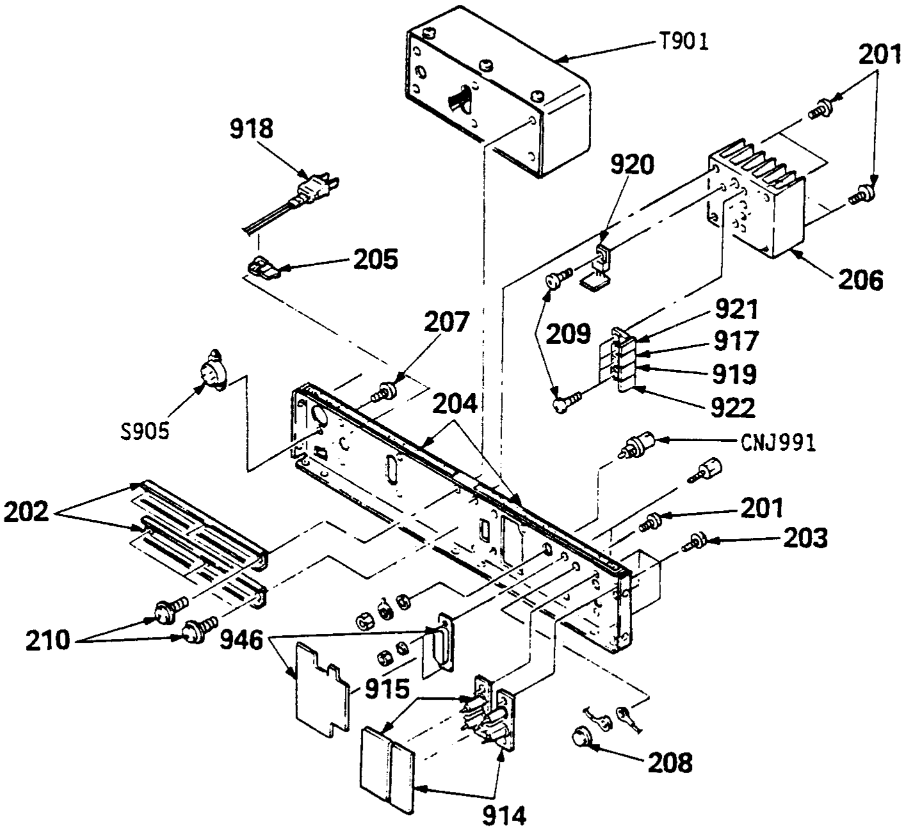
No.	Part No.	Description	Remarks
151	4-918-937-01	KNOB, TIMER SW	
152	*4-919-065-01	LUG, JACK	
153	4-908-046-01	KNOB, SQUARE	
154	*4-864-307-00	RING	
155	3-575-524-00	COVER, POWER SWITCH	
156	*4-919-020-01	SUPPORT (B), PC BOARD	
157	*4-919-029-01	PLATE (L), SIDE	
158	3-831-441-XX	SPACER (B)	
159	*4-919-041-01	(US,Canadian)...COVER, INSULATING	
	*4-919-074-01	(AEP)...........COVER, INSULATING	
160	*4-919-042-01	SPACER	
161	*4-919-012-01	BRACKET (LEFT), MD	
162	*4-919-038-01	SHEET (A), INSULATING	
163	4-918-991-01	SCREW, STEP	
164	3-564-121-00	SPRING, COMPRESSION	
165	*4-919-013-01	BRACKET (RIGHT), MD	
166	*4-919-039-01	SHEET (B), INSULATING	
167	*4-919-009-01	COVER, DIGITAL SHIELD	
168	2-375-791-01	SUPPORT	
169	*4-919-010-01	CASE, SHIELD, DIGITAL	
170	*4-919-040-01	SHEET (C), INSULATING	
171	*4-919-018-01	BRACKET, PC BOARD	

No.	Part No.	Description	Remarks
172	*4-919-028-01	CHASSIS, MD FITTING	
173	3-489-073-00	SCREW, THRUST	
174	*4-918-983-01	SUPPORT	
175	*3-701-832-00	HINGE, CIRCUIT BOARD	
176	*4-918-985-01	HEAT SINK (B)	
177	7-621-775-10	SCREW +B 2.6X4	
178	7-682-147-01	SCREW +BVTT 3X6 (S)	
179	3-703-685-21	SCREW (+BV 3X8)	
180	*4-919-076-01	SHEER (INSULATING)	
181	4-886-821-11	SCREW, S TIGHT, +PTTWH 3X6	
182	7-621-770-87	SCREW +B 2.6X5	
183	7-621-772-18	SCREW +B 2X4	
184	7-621-775-20	SCREW +B 2.6X5	
907	A-2020-081-A	MOUNTED PCB, MD SERVO	
908	A-2010-242-A	MOUNTED PCB, HP JACK	
909	A-2012-116-A	MOUNTED PCB, TIMER SW	
910	A-2095-597-A	MOUNTED PCB, DRUM DRIVE	
911	A-2097-007-A	MOUNTED PCB, DIGITAL	
912	A-2097-006-A	MOUNTED PCB, DIGITAL I/O	
913	A-2012-127-A	MOUNTED PCB, POWER	
S901	⚠1-553-318-00	SWITCH PUSH (AC POWER)(1KEY) [illegible]	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Rear Panel Block

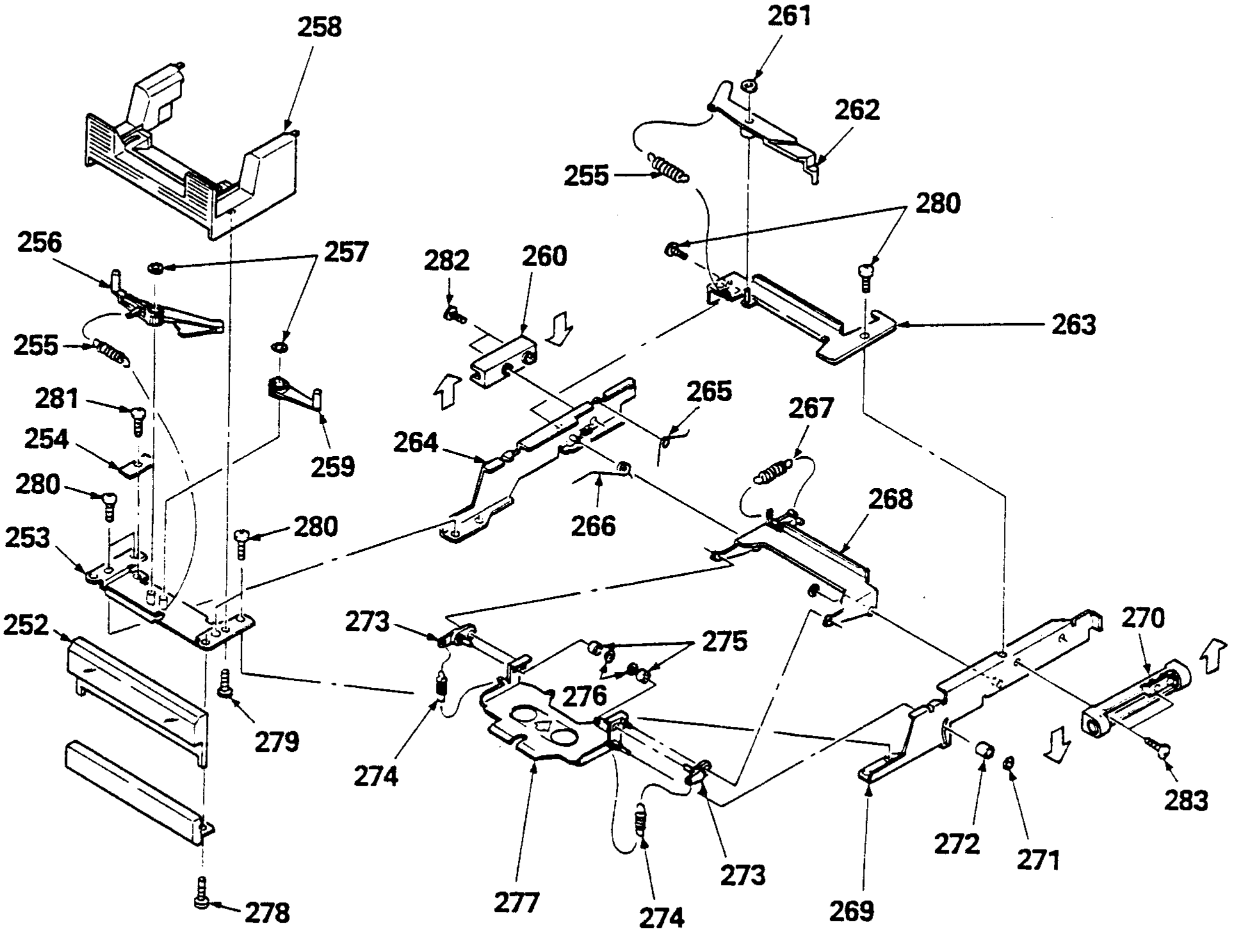


No.	Part No.	Description	Remarks
201	7-685-873-09	SCREW +BVTT 3X10 (S)	
202	*4-918-987-01	REINFORCEMENT	
203	7-682-547-09	SCREW +BV 3X6, S TIGHT	
204	3-831-441-XX	SPACER (B)	
205	2-352-626-01	(US,Canadian)...BUSHING, CORD	
	3-703-244-01	(AEP)...........BUSHING, CORD	
206	*4-919-021-01	HEAT SINK	
207	7-682-546-09	SCREW +B 3X5	
208	4-859-606-01	NUT, FLANGE (M3)	
209	7-682-547-09	SCREW +B 3X6	
210	7-682-661-09	SCREW +PSW 4X8	
914	A-2010-238-A	MOUNTED PCB, LINE (IN)	
915	A-2010-239-A	MOUNTED PCB, LINE (OUT)	
917	A-2012-113-A	MOUNTED PCB, TRANSISTOR (C)	

No.	Part No.	Description	Remarks
918	⚠1-556-415-00	(US,Canadian)...3P POWER CORD	
	1-558-568-11	(AEP)............CORD, POWER	
919	A-2012-115-A	MOUNTED PCB, TRANSISTOR (E)	
920	A-2012-112-A	MOUNTED PCB, TRANSISTOR (B)	
921	A-2012-111-A	MOUNTED PCB, TRANSISTOR (A)	
922	A-2012-114-A	MOUNTED PCB, TRANSISTOR (D)	
946	A-2019-209-A	MOUNTED PCB, CONNECTOR (D) (M)	
CNJ991	1-562-261-11	CONNECTOR, COAXIAL (BNC)	
S905	⚠1-526-576-41	SELECTOR, POWER VOLTAGE	
T901	⚠1-449-070-11	TRANSFORMER, POWER	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

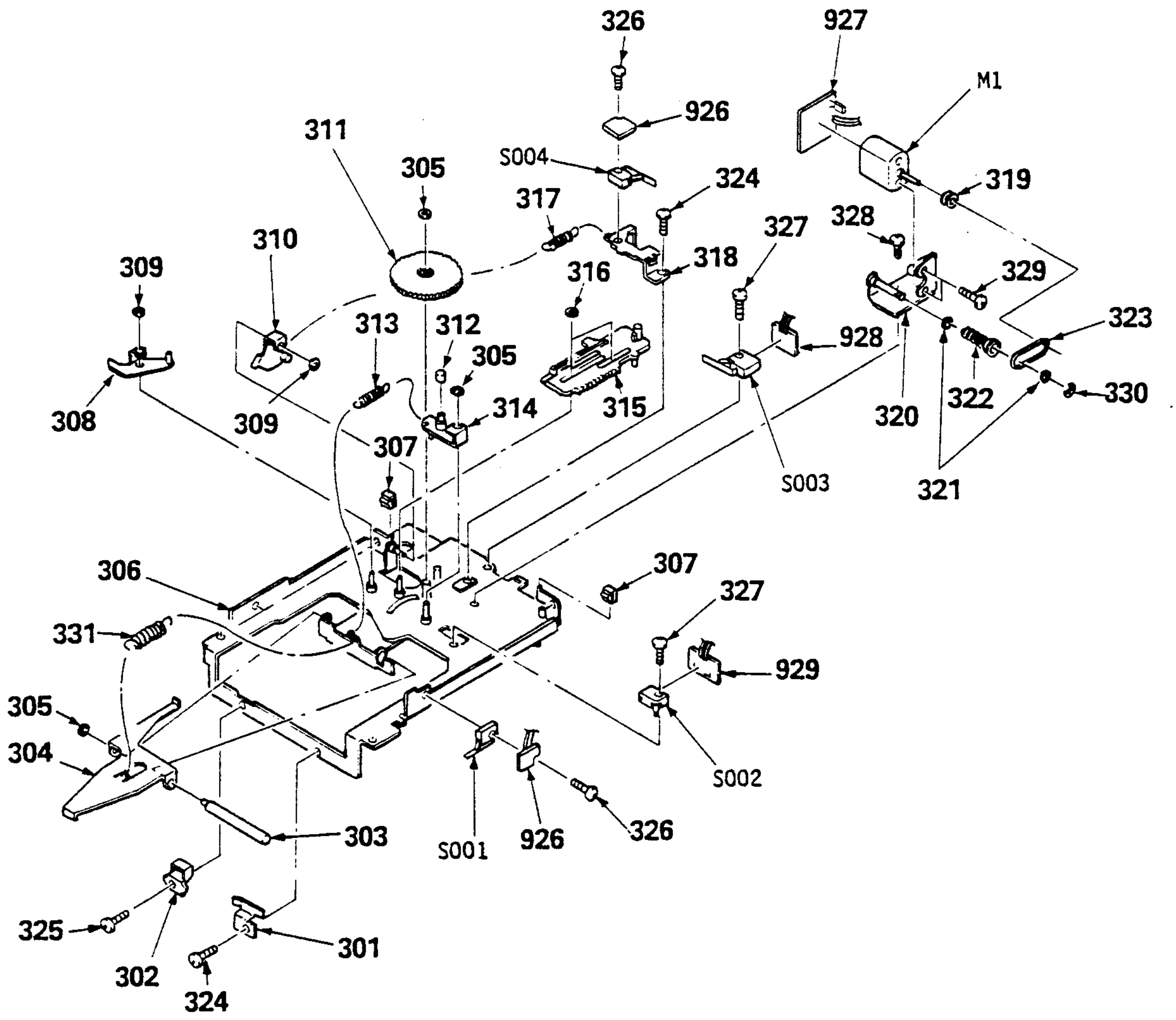
Cassette Table Block (1) A-2151-034-A Cassette Compartment Ass'y
Contains Cassette Table Blocks (1) through (3).



Notes: Attach 260 to 264 and 270 to 269 as follows:
- Tighten the screws with the play removed (counterclockwise).
- When the screws are not tightened as described above, a play occurs in the tray spring.

No.	Part No.	Description	Remarks
252	4-918-922-03	WINDOW, TRAY	
253	*X-4918-924-1	JOINT (REAR) ASSY	
254	*4-918-974-01	SLIDE BLOCK	
255	3-489-310-XX	SPRING, TENSION	
256	4-919-004-01	LEVER (LEFT)	
257	3-307-948-31	WASHER, NYLON	
258	*4-919-035-01	TRAY	
259	4-919-003-01	LEVER (RIGHT)	
260	*4-919-016-01	BEARING, SLIDER	
261	3-307-948-21	WASHER, NYLON	
262	4-919-007-01	LEVER, PUSH-OUT	
263	*X-4918-923-1	JOINT (FRONT) ASSY	
264	*X-4918-926-1	PLATE (LEFT) ASSY, SIDE	
265	4-918-962-01	SPRING	
266	4-918-971-01	SPRING	
267	4-919-047-01	SPRING	
268	*X-4918-922-1	ARM ASSY	
269	*X-4918-927-1	PLATE (RIGHT) ASSY, SIDE	
270	4-912-538-01	BEARING (RIGHT), GUIDE	
271	3-315-414-00	WASHER	
272	*4-918-977-01	ROLLER, STABILITY	
273	*4-918-945-01	LEVER, PRESS	
274	3-570-587-00	SPRING, TENSION	
275	4-918-946-01	ROLLER, PRESS	
276	3-701-436-11	WASHER, STOPPER	
277	*X-4918-925-1	HOLDER ASSY, CASSETTE	
278	7-621-773-86	SCREW +B 2.6X4	
279	7-685-134-19	SCREW +BTP 2.6X8 TYPE2 N-S	
280	7-621-775-00	SCREW +B 2.6X3	
281	7-621-772-00	SCREW +B 2X3	
282	7-621-775-20	SCREW +B 2.6X5	
283	7-682-146-09	SCREW +P 3X5	

Cassette Table Block (2)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S003
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S002
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S001
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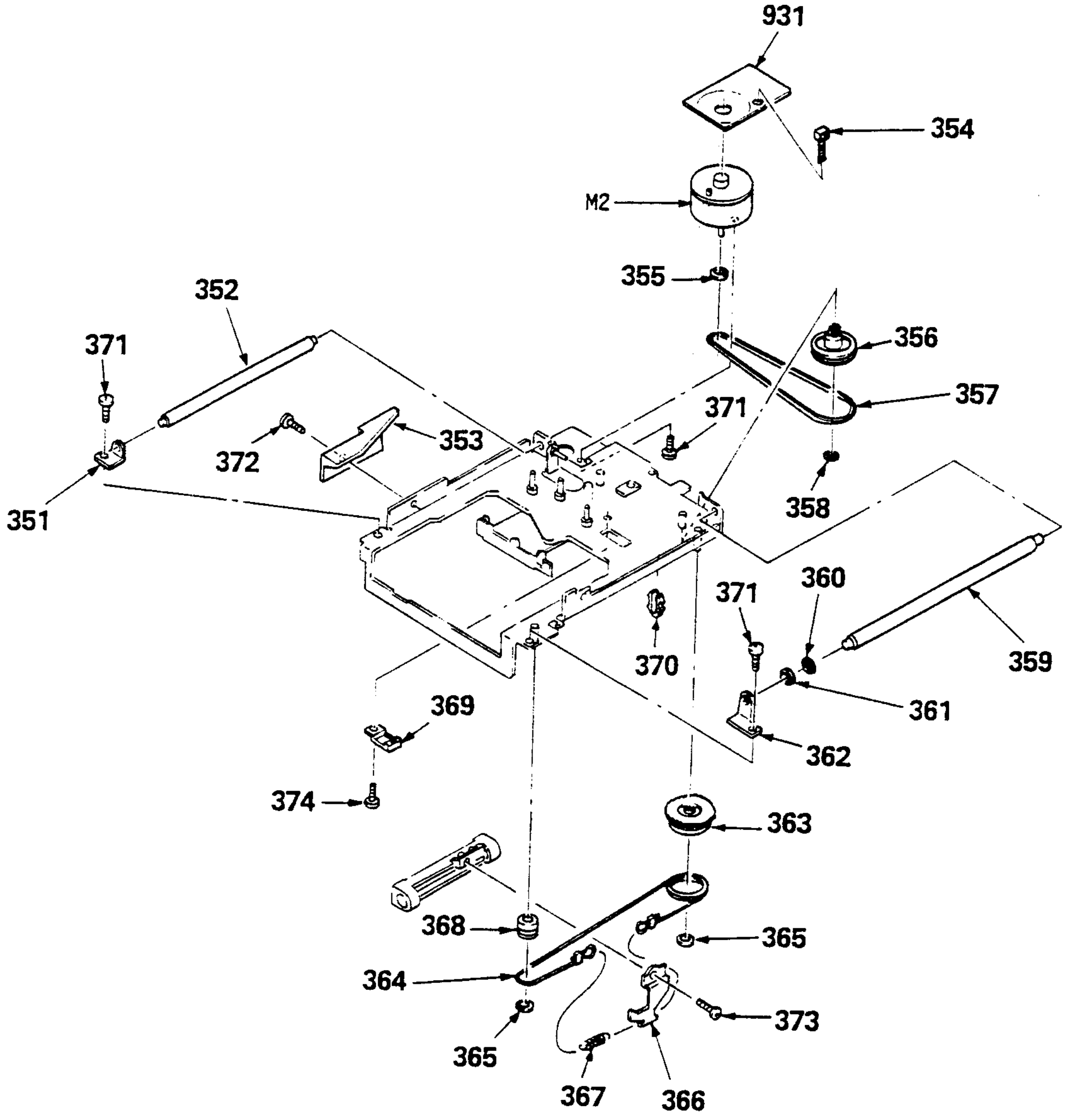
No.	Part No.	Description	Remarks
301	*4-918-952-01	PLATE (C), AGAINST	
302	*4-918-978-01	HOUSING, POSITIONING	
303	*4-918-942-01	SHAFT, PULL LEVER	
304	*4-918-999-01	LEVER, PULL	
305	3-701-436-11	WASHER, STOPPER	
306	*X-4918-932-1	CHASSIS ASSY	
307	4-887-175-00	RUBBER, STOPPER	
308	*X-4918-905-1	ARM ASSY, TRAY LOCK	
309	3-307-948-31	WASHER, NYLON	
310	*X-4918-901-1	PLATE ASSY, FUNCTION	
311	4-919-008-01	GEAR, UD	
312	*4-918-913-01	ROLLER, CAM	
313	3-578-387-00	SPRING, TENSION	
314	*X-4918-902-1	LEVER ASSY, CAM	
315	*4-919-002-01	SLIDER, UD	
316	3-307-948-21	WASHER, NYLON	
317	3-567-028-00	SPRING, TENSION	
318	*4-918-961-01	BRACKET, SW	
319	4-918-970-01	PULLEY, MOTOR	
320	*X-4918-921-1	BRACKET ASSY, MOTOR	
321	3-701-438-21	WASHER	
322	4-918-954-01	WORM	
323	4-918-923-01	BELT, UD MOTOR	
324	7-621-259-10	SCREW +P 2.6X3	
325	7-621-775-00	SCREW +B 2.6X3	
326	7-621-255-40	SCREW +P 2X6	
327	7-621-255-55	SCREW +P 2X8	
328	7-628-253-90	SCREW +PS 2.6X4	
329	7-627-852-37	PRECISION SCREW +P1.7X1.8TYPE3	
330	7-624-104-04	STOP RING 2.0, TYPE -E	
331	3-701-788-XX	SPRING, TENSION	
926	*1-621-623-11	PC BOARD SW (C),(A)	
927	*1-621-625-11	PC BOARD, UD MOTOR	
928	*1-621-626-11	PC BOARD SW (D)	
929	*1-621-624-11	PC BOARD SW (B)	
M1	1-541-445-11	MOTOR	
S001	1-570-975-11	SWITCH, SLIDE (OUT)	
S002	1-570-972-11	SWITCH (IN)	
S003	1-570-973-11	SWITCH (UP)	
S004	1-570-975-11	SWITCH, SLIDE (DOWN (IN))	

Cassette Table Block (3)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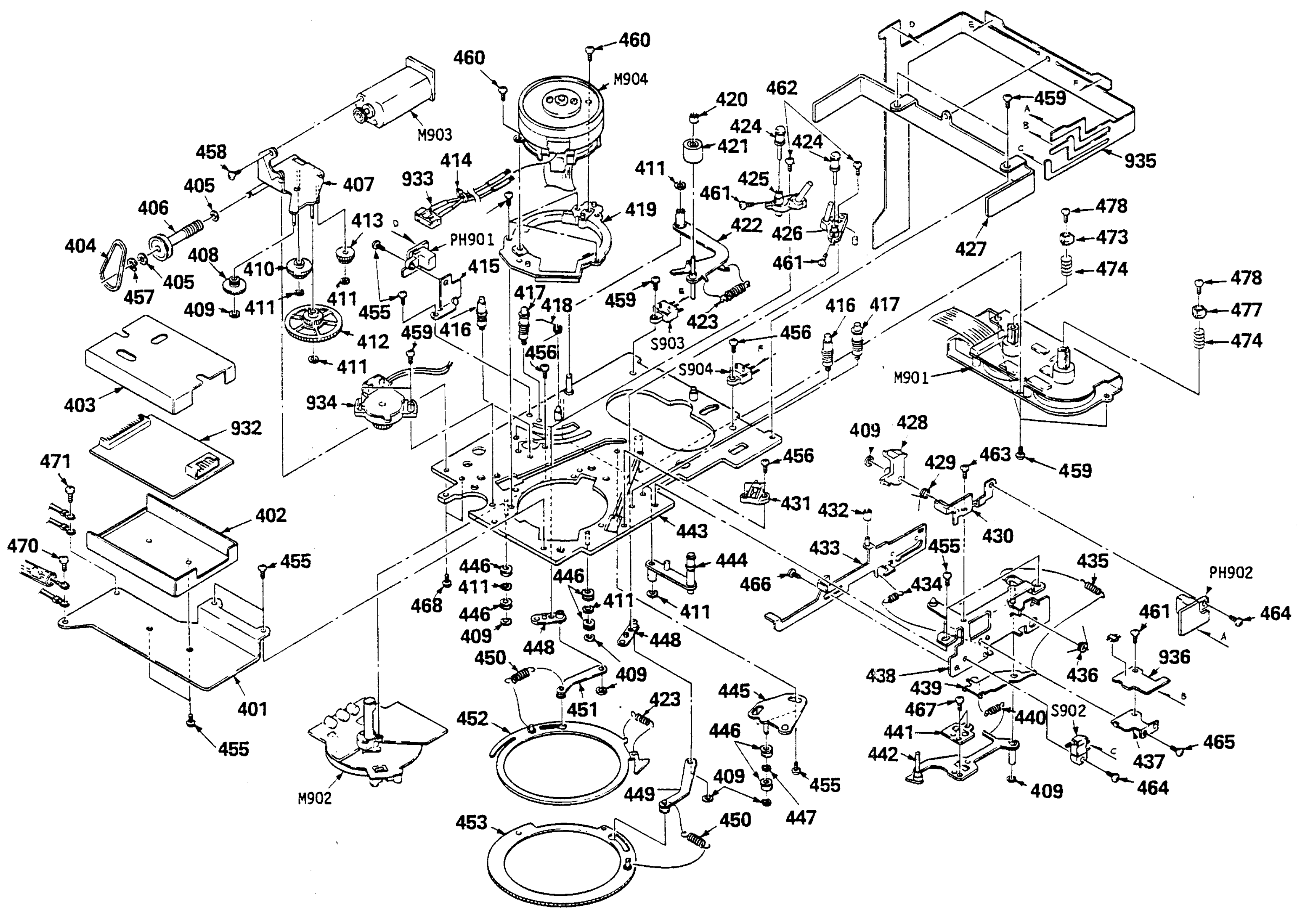
No.	Part No.	Description	Remarks
351	*4-918-947-01	PLATE (L), AGAINST	
352	*4-918-959-01	SHAFT (L), SLIDE	
353	*4-919-006-01	GUIDE	
354	3-701-748-00	CLAMP	
355	3-554-222-00	WASHER (2), CAPSTAN	
356	4-918-901-01	PULLEY (2)	
357	4-918-963-01	BELT, SLIDE MOTOR	
358	3-701-436-11	WASHER, STOPPER	
359	*4-918-914-01	SHAFT (RIGHT), SLIDE	
360	*4-918-980-01	CUSHION	
361	4-908-550-01	STOPPER, RUBBER	
362	*4-918-951-01	PLATE (R), AGAINST	
363	4-918-906-01	GEAR, WIRE	
364	4-918-949-01	WIRE	
365	3-307-948-31	WASHER, NYLON	
366	4-918-904-01	HOOK, WIRE	
367	3-548-757-00	SPRING, TENSION	
368	4-918-907-01	PULLEY	
369	*4-918-984-01	STOPPER, WIRE	
370	3-660-815-00	CLIP, CABLE	
371	7-621-775-00	SCREW +B 2.6X3	
372	7-621-775-08	SCREW +B 2.6X3	
373	7-685-131-19	SCREW +BTP 2.6X4 TYPE2 N-S	
374	7-621-772-08	SCREW +B 2X3	
931	*1-621-622-11	PC BOARD (SLIDE MOTOR)	
M2	A-4608-303-A	MOTOR ASSY, LOADING	

Mechanism Assembly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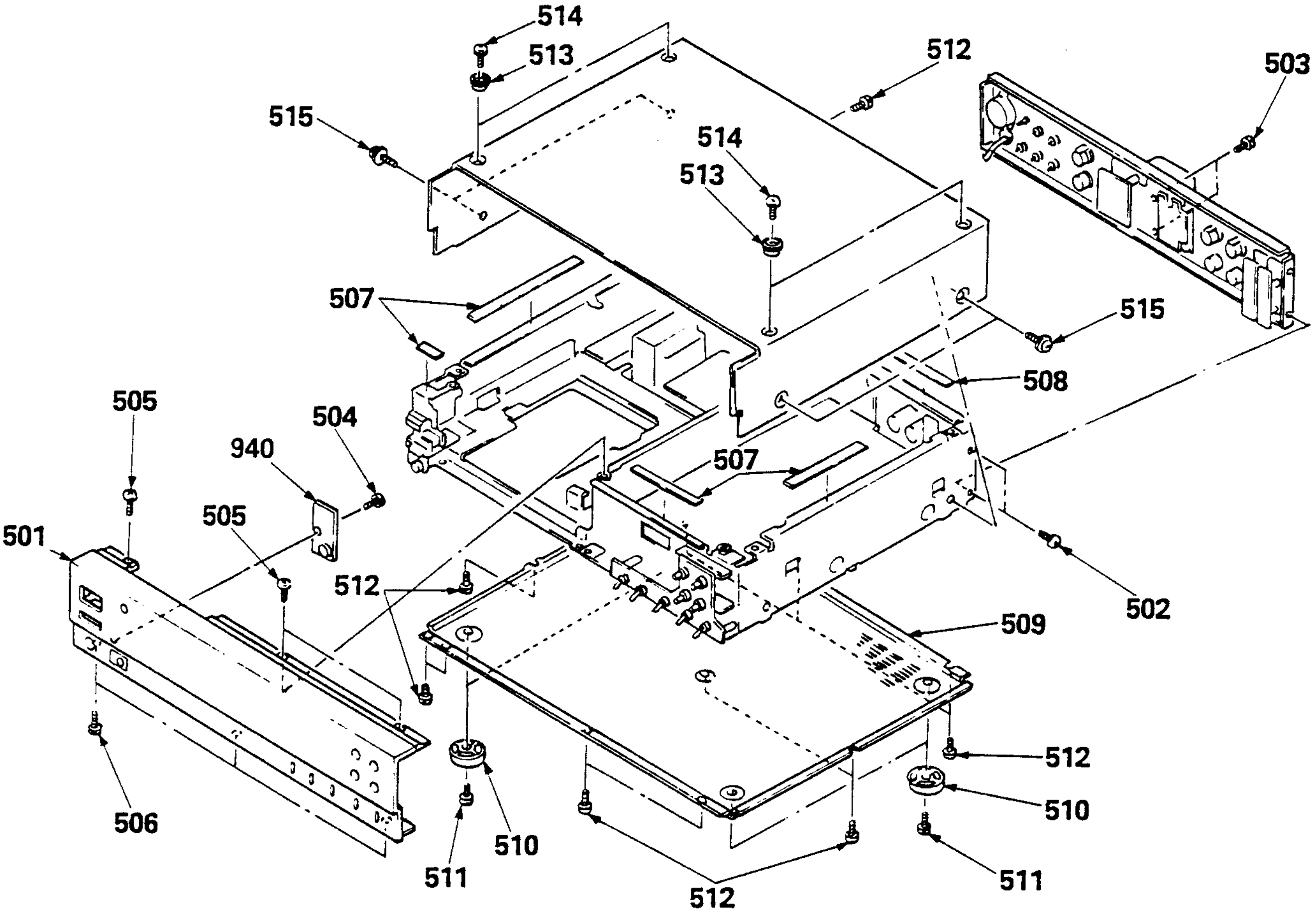
No.	Part No.	Description	Remarks
401	*3-337-666-01	BRACKET, RF	
402	*3-337-686-01	CASE (LOWER), SHIELD	
403	*3-337-682-01	CASE (UPPER), SHIELD	
404	3-337-652-01	BELT, CONTROL	
405	3-701-437-21	WASHER	
406	3-337-650-01	GEAR, WORM	
407	*X-3337-617-1	BRACKET ASSY, CONTROL MOTOR	
408	3-337-669-01	GEAR, MIDWAY	
409	3-559-408-11	WASHER, POLYETHYLENE, DIA.1.2	
410	3-337-649-01	WHEEL, WORM	
411	3-701-436-11	WASHER, STOPPER	
412	3-337-647-01	GEAR (A), LOADING	
413	3-337-648-01	GEAR (B), LOADING	
414	3-701-748-00	CLAMP	
415	*3-337-610-01	BRACKET (RIGHT), E DETECTION	
416	X-3337-623-1	GUIDE (5.0) ASSY, FIXED	
417	X-3337-621-1	GUIDE (4.0) ASSY, FIXED	
418	3-337-654-01	SPRING	
419	*X-3337-614-1	SLANT ASSY	
420	3-337-626-01	CAP, PINCH ROLLER	
421	X-3337-610-1	PINCH ROLLER ASSY	
422	X-3337-608-1	ARM ASSY, PINCH ROLLER	
423	3-547-659-00	SPRING, TENSION	
424	X-3337-622-1	GUIDE (POM) ASSY, ROLLER	
425	X-3337-616-1	SLANT BLOCK (RIGHT) ASSY	
426	X-3337-615-1	SLANT BLOCK (LEFT) ASSY	
427	*3-337-679-01	HOLDER, PC BOARD	
428	3-337-608-01	OPENER, LID	
429	3-337-607-01	SPRING	
430	*X-3337-612-1	BRACKET (L) ASSY, E DETECTION	
431	*3-337-685-01	CATCHER	
432	3-337-664-01	ROLLER	
433	X-3337-618-1	SLIDER ASSY, MODE	
434	3-570-892-00	SPRING, TENSION	
435	3-561-626-00	SPRING, TENSION	
436	3-337-673-01	SPRING	
437	*3-337-662-01	BRACKET, HOLE ELEMENT	
438	*X-3337-619-1	CHASSIS ASSY, TENSION REGULATOR	
439	*3-337-657-01	LEVER, LIMITER	
440	3-307-377-00	SPRING, TENSION	
441	X-3337-611-1	HOLDER ASSY, MAGNET	
442	X-3337-609-1	ARM ASSY, TENSION REGULATOR	
443	*X-3337-625-1	CHASSIS ASSY, MECHANICAL	
444	X-3337-613-1	ARM ASSY, F	
445	*X-3337-605-1	ARM ASSY, RING ROLLER	
446	3-337-622-01	ROLLER, RING	
448	X-3337-604-1	PLATE ASSY, LOADING	
449	*X-3337-607-1	ARM (LEFT) ASSY, LOADING	
450	3-337-653-01	SPRING, TENSION	
451	*X-3337-603-1	ARM (RIGHT) ASSY, LOADING	
452	X-3337-601-1	RING (RIGHT) ASSY, LOADING	
453	X-3337-602-1	RING (LEFT) ASSY, LOADING	
455	7-621-772-08	SCREW +B 2X3	
456	7-627-552-47	SCREW, PRECISION +P 1.7X4	
457	7-624-102-04	STOP RING 1.5, TYPE -E	
458	7-627-553-17	SCREW, PRECISION +P 2X2	
459	7-621-772-18	SCREW +B 2X4	
460	7-621-255-25	SCREW +P 2X4	
461	7-627-551-27	SCREW, PRECISION +P 1.4X2	
462	3-703-502-81	SCREW	
463	7-627-552-18	SCREW, PRECISION +P 1.7X1.6	
464	7-621-772-20	SCREW +B 2X5	
465	7-627-552-27	SCREW, PRECISION +P 1.7X2	
466	3-703-502-11	SCREW	
467	7-627-551-87	PRECISION SCREW +P 1.4X1.8	
468	7-628-253-00	SCREW +PS 2X4	
470	7-621-773-86	SCREW +B 2.6X4	
471	7-621-770-67	SCREW +B 2.6X6	
473	2-623-736-01	REEL (L)	
474	2-623-754-01	SPRING	
477	2-623-752-01	REEL (R)	
478	2-623-756-01	SCREW B1.7X3	
932	*A-2096-052-A	MOUNTED PCB, RF AMPLIFIER	
933	*9-831-249-48	WIRE KIT	
934	1-464-724-11	ENCODER, ROTARY	
935	1-620-725-11	PC BOARD, MD FLEXIBLE	
936	*1-620-186-11	PC BOARD, TENTION LEGULATOR	
M901	8-835-205-01	MOTOR, DC U-2A	
M902	8-835-206-01	MOTOR, DC BHF-2803A	
M903	X-3337-626-1	MOTOR ASSY, L	
M904	8-848-501-01	DRUM ASSY DOH-01A	
PH901	1-807-698-11	PHOTO SENSOR	
PH902	1-807-698-11	PHOTO SENSOR	
S902	1-570-771-11	SWITCH LIMIT	
S903	1-570-883-11	SWITCH, PUSH (2 KEY) CASSETTE DETEDT A	
S904	1-570-883-21	SWITCH, PUSH (2 KEY) CASSETTE DETEDT B	

(2) INTERFACE UNIT (PCM-2500B)

Outer Casing Block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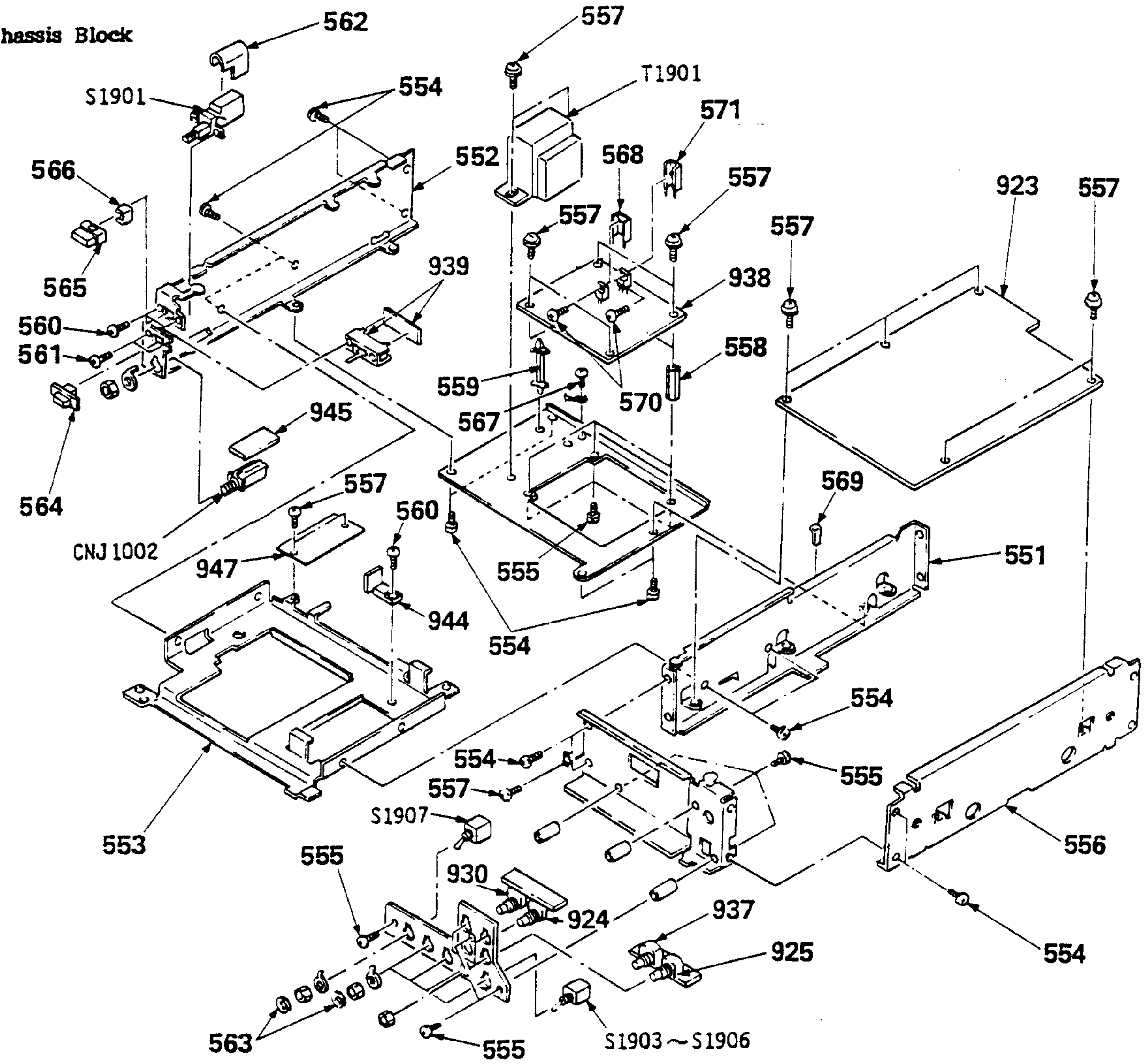
No.	Part No.	Description	Remarks
501	A-2310-365-A	PANEL (A) ASSY, FRONT	
502	3-703-685-21	SCREW (+BV 3X8)	
503	7-685-870-09	SCREW +BVTT 3X5 (S)	
504	7-685-133-19	SCREW +BTP 2.6X6 TYPE2 N-S	
505	7-621-775-20	SCREW +B 2.6X5	
506	7-682-547-09	SCREW +BVTT 3X6 (S)	
507	3-831-441-XX	SPACER (B)	
508	*4-919-067-01	FELT (CONDUCTIVE)	
509	*4-919-036-01	PLATE, BOTTOM	
510	X-4918-919-1	LEG ASSY	
511	7-682-561-09	SCREW +B 4X8	
512	7-682-547-09	SCREW +BV 3X6, S TIGHT	
513	3-576-298-11	ESCUTCHEON	
514	7-682-547-09	SCREW, FLAT WASHER (+B)(3X6)	
515	4-889-321-31	SCREW	
940	A-2012-136-A	MOUNTED PCB, RAY CATCHER	

Chassis Block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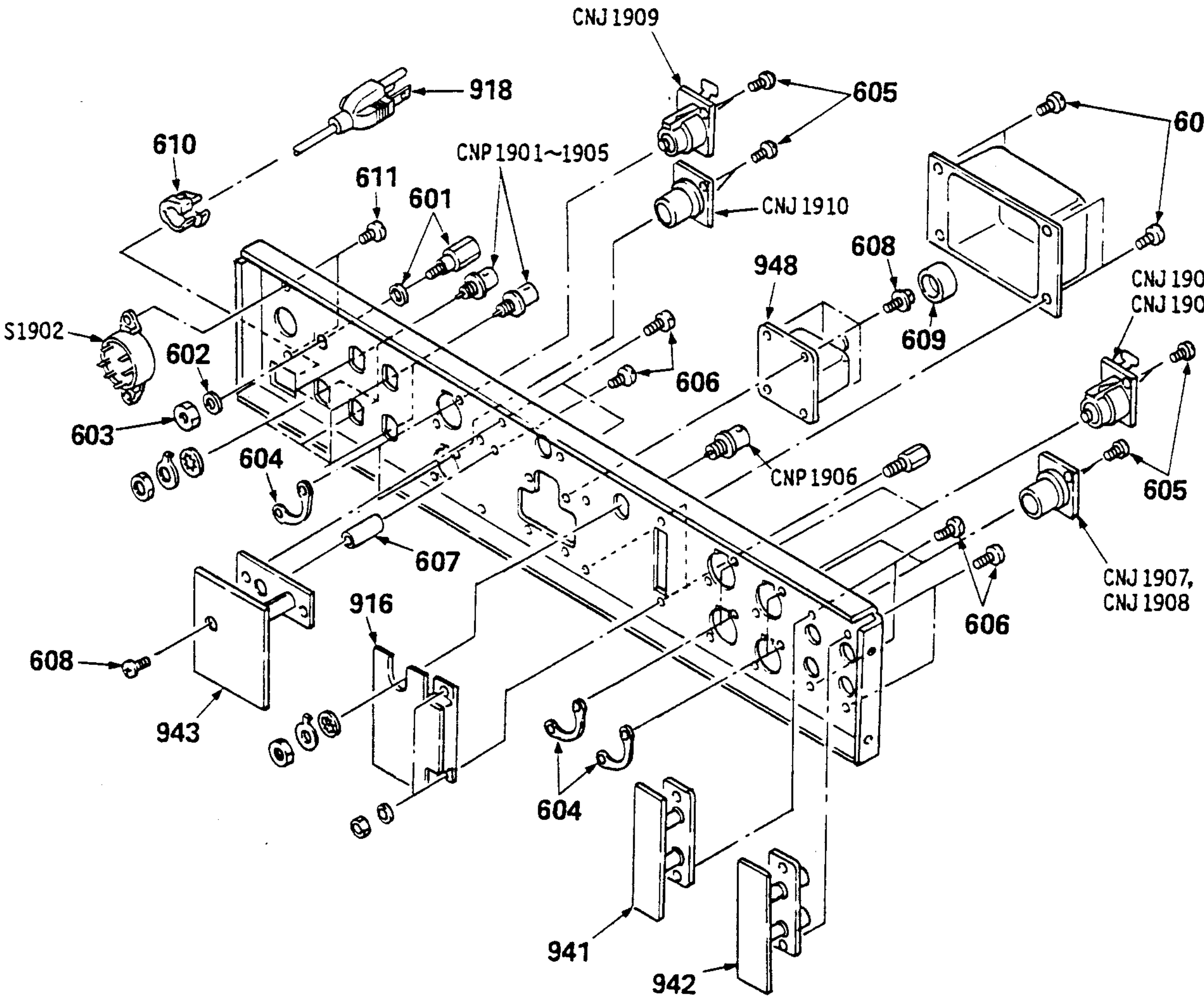
No.	Part No.	Description	Remarks
551	*4-919-027-01	PLATE (C), SIDE	
552	*4-919-029-01	PLATE (L), SIDE	
553	*4-919-028-01	CHASSIS, MD FITTING	
554	3-703-685-01	SCREW (+BV 3X8)	
555	7-682-546-09	SCREW +B 3X5	
556	*4-919-026-01	PLATE (R), SIDE	
557	4-886-821-11	SCREW, S TIGHT, +PTTWH 3X6	
558	*3-659-109-00	SPACER	
559	*3-710-673-01	SUPPORT, PC BOARD	
560	7-682-147-01	SCREW +BVTT 3X6 (S)	
561	7-621-775-10	SCREW +B 2.6X4	
562	3-575-524-00	COVER, POWER SWITCH	
563	9-911-838-XX	ESCUTCHEON, TOGGLE SWITCH	
564	4-918-937-01	KNOB, TIMER SW	
565	4-908-046-01	KNOB, SQUARE	
566	*4-864-307-00	RING	
567	7-682-660-09	SCREW +PS 4X6	
568	*3-309-144-01	HEAT SINK	
569	3-831-441-XX	CUSHION (B), CABINET	
570	7-682-147-15	SCREW, TR	
571	*4-886-555-00	HEAT SINK	
923	A-2010-259-A	MOUNTED PCB, DIGITAL I/F	
924	A-2012-129-A	MOUNTED PCB, VOL (A)	
925	A-2012-130-A	MOUNTED PCB, VOL (B)	
930	A-2012-131-A	MOUNTED PCB, VOL (C)	
937	A-2012-132-A	MOUNTED PCB, VOL (D)	
938	A-2012-133-A	MOUNTED PCB, POWER	
939	A-2012-134-A	MOUNTED PCB, REMOTE CONTROL SW	
944	A-2012-141-A	MOUNTED PCB, IC	
945	A-2025-157-A	MOUNTED PCB, REMOTE JACK	
947	A-2012-135-A	MOUNTED PCB, POWER SW	
CNJ1002	1-507-796-21	JACK	
S1901 ⚠	1-553-318-00	SWITCH, PUSH (AC POWER)(I KEY)	
S1903	1-552-853-00	SWITCH (SAUPLING FREQUENCY)	
S1904	1-552-853-00	SWITCH (COPY PROHIBIT)	
S1905	1-552-853-00	SWITCH (MASTER SAFE)	
S1906	1-552-853-00	SWITCH (ENPHASIS)	
S1907	1-571-294-11	SWITCH, TOGGLE	
T1901 ⚠	1-449-046-11	TRANSFORMER, POWER [illegible]	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Rear Panel Block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CNP1906
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CNJ1907,
CNJ1908
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No.	Part No.	Description	Remarks
601	*X-4801-204-0	TERMINAL ASSY	
602	7-623-208-22	SW 3, TYPE 2	
603	7-684-023-04	N 3, TYPE 2	
604	*2-378-311-00	NUT (XLR), PLATE	
605	7-621-259-49	SCREW +P 2.6X6	
606	7-682-547-09	SCREW +BV 3X6, S TIGHT	
607	2-066-111-08	STUD	
608	4-886-821-11	SCREW, S TIGHT, +PTTWH 3X6	
609	4-908-991-01	ESCUTCHEON (OUT)	
610	2-352-626-01	(US,Canadian)...BUSHING, CORD	
	3-703-244-01	(AEP)...........BUSHING, CORD	
611	7-682-546-09	SCREW +B 3X5	
916	A-2012-139-A	MOUNTED PCB, CONNECTOR (D) (A)	
941	A-2012-137-A	MOUNTED PCB, LINE IN	
942	A-2012-138-A	MOUNTED PCB, LINE OUT	
943	A-2012-140-A	MOUNTED PCB, DIGITAL I/O SUB	
948	1-464-763-11	COIL UNIT, DIGITAL I/O	

No.	Part No.	Description	Remarks
918	⚠1-556-415-00	(US,Canadian)...3P CORD, POWER	
	1-558-568-11	(AEP)...........CORD, POWER	
CNJ1905	1-509-184-31	CONNECTOR (RFCEPTACLE) 3P	
CNJ1906	1-509-184-31	CONNECTOR (RFCEPTACLE) 3P	
CNJ1907	1-509-176-31	CONNECTOR (RFCEPTACLE) 3P	
CNJ1908	1-509-176-31	CONNECTOR (RFCEPTACLE) 3P	
CNJ1909	1-509-184-31	CONNECTOR (RFCEPTACLE) 3P	
CNJ1910	1-509-176-31	CONNECTOR (RFCEPTACLE) 3P	
CNP1901	1-562-261-21	CONNECTOR, COAXIAL (BNC)	
CNP1902	1-562-261-21	CONNECTOR, COAXIAL (BNC)	
CNP1903	1-562-261-21	CONNECTOR, COAXIAL (BNC)	
CNP1904	1-562-261-21	CONNECTOR, COAXIAL (BNC)	
CNP1905	1-562-261-21	CONNECTOR, COAXIAL (BNC)	
CNP1906	1-562-261-21	CONNECTOR, COAXIAL (BNC)	
S1902	⚠1-526-576-41	SELECTOR, POWER VOLTAGE	[illegible]

SECTION 7
ELECTRICAL PARTS LIST

NOTE:

- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuitsin a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms.
- F : nonflammable

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC, UPD...: μPD...

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description
901	A-2019-208-A	MOUNTED PCB, SUB, MICRO COMPUTER
902	A-2012-110-A	MOUNTED PCB, CONTROL
903	A-2019-207-A	MOUNTED PCB, MAIN MICROCOMPUTER
904	A-2010-243-A	MOUNTED PCB, HP AMP
905	A-2010-258-A	MOUNTED PCB, REC VOL
906	A-2010-245-A	MOUNTED PCB, ANNALOGUE
907	A-2020-081-A	MOUNTED PCB, MD SERVO
908	A-2010-242-A	MOUNTED PCB, HP JACK
909	A-2012-116-A	MOUNTED PCB, TIMER SW
910	A-2095-597-A	MOUNTED PCB, DRUM DRIVE
911	A-2097-007-A	MOUNTED PCB, DIGITAL
912	A-2097-006-A	MOUNTED PCB, DIGITAL I/O
913	A-2012-127-A	MOUNTED PCB, POWER
914	A-2010-238-A	MOUNTED PCB, LINE (IN)
915	A-2010-239-A	MOUNTED PCB, LINE (OUT)
916	A-2012-139-A	MOUNTED PCB, CONNECTOR (D) (A)
917	A-2012-113-A	MOUNTED PCB, TRANSISTOR (C)
918	⚠1-556-415-00	(US,Canadian)...3P POWER CORD
	1-558-568-11	(AEP).............CORD, POWER
919	A-2012-115-A	MOUNTED PCB, TRANSISTOR (E)
920	A-2012-112-A	MOUNTED PCB, TRANSISTOR (B)
921	A-2012-111-A	MOUNTED PCB, TRANSISTOR (A)
922	A-2012-114-A	MOUNTED PCB, TRANSISTOR (D)
923	A-2010-259-A	MOUNTED PCB, DIGITAL I/F
924	A-2012-129-A	MOUNTED PCB, VOL (A)
925	A-2012-130-A	MOUNTED PCB, VOL (B)
926	*1-621-623-11	PC BOARD
927	*1-621-625-11	PC BOARD, UD MOTOR
928	*1-621-626-11	PC BOARD
929	*1-621-624-11	PC BOARD
930	A-2012-131-A	MOUNTED PCB, VOL (C)
931	*1-621-622-11	PC BOARD (SLIDE MOTOR)
932	*A-2096-052-A	MOUNTED PCB, RF AMPLIFIER
933	*9-831-249-48	WIRE KIT
934	1-464-724-11	ENCODER, ROTARY
935	1-620-725-11	PC BOARD, MD FLEXIBLE
936	*1-620-186-11	PC BOARD, TENTION LEGULATOR
937	A-2012-132-A	MOUNTED PCB, VOL (D)
938	A-2012-133-A	MOUNTED PCB, POWER
939	A-2012-134-A	MOUNTED PCB, REMOTE CONTROL SW
940	A-2012-136-A	MOUNTED PCB, RAY CATCHER
941	A-2012-137-A	MOUNTED PCB, LINE IN
942	A-2012-138-A	MOUNTED PCB, LINE OUT

Ref.No.	Part No.	Description			
943	A-2012-140-A	MOUNTED PCB, DIGITAL I/O SUB			
944	A-2012-141-A	MOUNTED PCB, IC			
945	A-2025-157-A	MOUNTED PCB, REMOTE JACK			
946	A-2019-209-A	MOUNTED PCB, CONNECTOR (D) (M)			
947	A-2012-135-A	MOUNTED PCB, POWER SW			
948	1-464-763-11	COIL UNIT, DIGITAL I/O			
949	*1-560-242-11	BUS BAR 3P			
950	*1-560-242-31	BUS BAR 5P			
951	*1-560-242-41	BUS BAR 11P			
952	*1-560-242-51	BUS BAR 7P			
953	*1-560-242-81	BUS BAR 8P			
954	*1-535-118-00	TERMINAL			
955	*1-535-140-00	BASE POST 19MM (10MM PITCH) 3P			
956	1-535-416-00	TERMINAL			
957	1-535-416-00	TERMINAL			
C001	1-136-165-00	FILM	0.1MF	5%	50V
C002	1-136-165-00	FILM	0.1MF	5%	50V
C003	1-130-475-00	MYLAR	0.0022MF	5%	50V
C004	1-130-475-00	MYLAR	0.0022MF	5%	50V
C031	1-136-165-00	FILM	0.1MF	5%	50V
C032	1-136-165-00	FILM	0.1MF	5%	50V
C033	1-123-661-00	ELECT	100MF	20%	6.3V
C034	1-161-900-11	CERAMIC	1MF		50V
C035	1-123-661-00	ELECT	100MF	20%	6.3V
C036	1-161-900-11	CERAMIC	1MF		50V
C037	1-161-900-11	CERAMIC	1MF		50V
C038	1-162-294-31	CERAMIC	0.001MF	10%	50V
C039	1-162-294-31	CERAMIC	0.001MF	10%	50V
C040	1-162-294-31	CERAMIC	0.001MF	10%	50V
C041	1-161-900-11	CERAMIC	1MF		50V
C051	1-124-225-00	ELECT	100MF	20%	6.3V
C052	1-161-900-11	CERAMIC	1MF		50V
C053	1-161-900-11	CERAMIC	1MF		50V
C054	1-161-900-11	CERAMIC	1MF		50V
C103	1-123-356-00	ELECT	10MF	20%	50V
C104	1-123-356-00	ELECT	10MF	20%	50V
C105	1-124-614-00	ELECT	10MF	20%	100V
C107	1-123-343-00	ELECT	33MF	20%	25V
C108	1-123-343-00	ELECT	33MF	20%	25V
C109	1-123-343-00	ELECT	33MF	20%	25V
C110	1-123-343-00	ELECT	33MF	20%	25V
C111	1-104-240-00	POLYSTYRENE	0.001MF	5%	125V
C112	1-162-282-31	CERAMIC	100PF	10%	50V
C113	1-162-282-31	CERAMIC	100PF	10%	50V
C114	1-131-365-00	TANTALUM	10MF	10%	16V

Ref.No.	Part No.	Description			
C116	1-161-379-00	CERAMIC	0.01MF	30%	16V
C117	1-162-294-31	CERAMIC	0.001MF	10%	50V
C118	1-162-294-31	CERAMIC	0.001MF	10%	50V
C119	1-162-851-11	CERAMIC	0.1MF	20%	16V
C120	1-123-330-00	ELECT	22MF	20%	25V
C121	1-162-851-11	CERAMIC	0.1MF	20%	16V
C122	1-123-330-00	ELECT	22MF	20%	25V
C123	1-136-250-11	FILM	0.001MF	3%	100V
C124	1-130-967-00	FILM	0.0027MF	3%	100V
C125	1-136-229-11	FILM	0.0016MF	3%	100V
C126	1-124-275-00	ELECT	2.2MF	20%	35V
C130	1-136-254-11	FILM	0.002MF	3%	100V
C131	1-136-250-11	FILM	0.001MF	3%	100V
C134	1-162-851-11	CERAMIC	0.1MF	20%	16V
C135	1-126-164-11	ELECT	100MF	20%	100V
C137	1-124-282-00	ELECT	22MF	20%	25V
C138	1-136-167-00	FILM	0.15MF	5%	50V
C139	1-124-279-11	ELECT	3.3MF	20%	25V
C140	1-130-892-00	FILM	0.015MF	3%	100V
C301	1-123-343-00	ELECT	33MF	20%	25V
C302	1-162-851-11	CERAMIC	0.1MF	20%	16V
C303	1-123-333-00	ELECT	100MF	20%	16V
C304	1-123-376-00	ELECT	330MF	20%	63V
C305	1-123-376-00	ELECT	330MF	20%	63V
C306	1-126-027-11	ELECT	1000MF	20%	25V
C307	1-162-851-11	CERAMIC	0.1MF	20%	16V
C312	1-124-995-11	ELECT	220MF	20%	10V
C313	1-162-851-11	CERAMIC	0.1MF	20%	16V
C314	1-124-995-11	ELECT	220MF	20%	10V
C315	1-162-851-11	CERAMIC	0.1MF	20%	16V
C318	1-162-851-11	CERAMIC	0.1MF	20%	16V
C319	1-162-851-11	CERAMIC	0.1MF	20%	16V
C320	1-126-027-11	ELECT	1000MF	20%	25V
C321	1-162-851-11	CERAMIC	0.1MF	20%	16V
C322	1-126-027-11	ELECT	1000MF	20%	25V
C323	1-161-974-00	CERAMIC	0.1MF	20%	16V
C326	1-107-202-00	MICA	10PF	5%	500V
C327	1-124-725-00	ELECT	100MF	20%	50V
C328	1-107-202-00	MICA	10PF	5%	500V
C329	1-124-725-00	ELECT	100MF	20%	50V
C330	1-131-450-00	TANTALUM	1MF	20%	50V
C331	1-123-378-00	ELECT	1000MF	20%	63V
C332	1-131-450-00	TANTALUM	1MF	20%	50V
C333	1-123-378-00	ELECT	1000MF	20%	63V
C334	1-136-165-00	FILM	0.1MF	5%	50V
C335	1-136-165-00	FILM	0.1MF	5%	50V
C336	1-136-165-00	FILM	0.1MF	5%	50V
C337	1-136-165-00	FILM	0.1MF	5%	50V
C338	1-136-165-00	FILM	0.1MF	5%	50V
C339	1-136-165-00	FILM	0.1MF	5%	50V
C340	1-136-165-00	FILM	0.1MF	5%	50V
C341	1-136-165-00	FILM	0.1MF	5%	50V
C342	1-136-165-00	FILM	0.1MF	5%	50V
C343	1-136-165-00	FILM	0.1MF	5%	50V
C344	1-136-165-00	FILM	0.1MF	5%	50V
C345	1-136-165-00	FILM	0.1MF	5%	50V
C346	1-136-165-00	FILM	0.1MF	5%	50V
C347	1-136-165-00	FILM	0.1MF	5%	50V
C348	1-123-343-00	ELECT	33MF	20%	25V
C349	1-162-851-11	CERAMIC	0.1MF	20%	16V
C350	1-123-343-00	ELECT	33MF	20%	25V
C351	1-123-343-00	ELECT	33MF	20%	25V
C352	1-123-343-00	ELECT	33MF	20%	25V
C353	1-162-851-11	CERAMIC	0.1MF	20%	16V
C354	1-124-902-00	ELECT	0.47MF	20%	50V
C355	1-123-875-11	ELECT	10MF	20%	50V
C356	1-123-343-00	ELECT	33MF	20%	25V
C357	1-126-013-11	ELECT	1000MF	20%	16V
C358	1-126-013-11	ELECT	1000MF	20%	16V
C359	1-123-333-00	ELECT	100MF	20%	16V
C362	1-162-851-11	CERAMIC	0.1MF	20%	16V
C363	1-162-851-11	CERAMIC	0.1MF	20%	16V
C364	1-162-851-11	CERAMIC	0.1MF	20%	16V
C365	1-104-150-00	POLYSTYRENE	680PF	5%	125V
C366	1-162-851-11	CERAMIC	0.1MF	20%	16V
C367	1-162-289-31	CERAMIC	390PF	10%	50V
C401	1-135-091-00	TANTAL. CHIP	1MF	10%	16V
C402	1-163-077-00	CERAMIC CHIP	0.1MF	10%	25V
C403	1-163-077-00	CERAMIC CHIP	0.1MF	10%	25V
C404	1-163-077-00	CERAMIC CHIP	0.1MF	10%	25V
C405	1-124-779-00	CAP ,ELECT	10MF	20%	16V
C406	1-124-779-00	CAP ,ELECT	10MF	20%	16V
C407	1-163-077-00	CERAMIC CHIP	0.1MF	10%	25V
C408	1-135-091-00	TANTAL. CHIP	1MF	10%	16V
C409	1-124-225-00	ELECT	100MF	20%	6.3V
C410	1-124-779-00	CAP ,ELECT	10MF	20%	16V
C411	1-163-013-00	CERAMIC CHIP	0.0022MF	10%	50V
C412	1-124-225-00	ELECT	100MF	20%	6.3V
C413	1-124-779-00	CAP ,ELECT	10MF	20%	16V
C414	1-163-013-00	CERAMIC CHIP	0.0022MF	10%	50V
C415	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C416	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C417	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C418	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C501	1-161-494-00	CERAMIC	0.022MF		25V
C502	1-161-494-00	CERAMIC	0.022MF		25V
C503	1-161-494-00	CERAMIC	0.022MF		25V
C504	1-161-494-00	CERAMIC	0.022MF		25V
C505	1-124-462-00	ELECT	10MF	20%	16V
C506	1-162-294-31	CERAMIC	0.001MF	10%	50V
C507	1-162-294-31	CERAMIC	0.001MF	10%	50V
C508	1-161-494-00	CERAMIC	0.022MF		25V
C509	1-161-494-00	CERAMIC	0.022MF		25V
C510	1-161-494-00	CERAMIC	0.022MF		25V
C511	1-161-494-00	CERAMIC	0.022MF		25V
C512	1-131-395-00	TANTALUM	100MF	10%	3.15V
C513	1-124-462-00	ELECT	10MF	20%	16V
C514	1-124-236-00	ELECT	47MF	20%	10V
C515	1-162-596-00	CERAMIC	0.022MF		25V
C516	1-161-494-00	CERAMIC	0.022MF		25V
C518	1-161-494-00	CERAMIC	0.022MF		25V
C519	1-124-236-00	ELECT	47MF	20%	10V
C520	1-161-494-00	CERAMIC	0.022MF		25V

Ref.No.	Part No.	Description			
C521	1-102-962-00	CERAMIC	30PF	5%	50V
C522	1-102-962-00	CERAMIC	30PF	5%	50V
C523	1-161-494-00	CERAMIC	0.022MF		25V
C524	1-161-379-00	CERAMIC	0.01MF	30%	16V
C525	1-123-661-00	ELECT	100MF	20%	6.3V
C526	1-123-661-00	ELECT	100MF	20%	6.3V
C527	1-162-294-31	CERAMIC	0.001MF	10%	50V
C528	1-161-494-00	CERAMIC	0.022MF		25V
C529	1-161-494-00	CERAMIC	0.022MF		25V
C530	1-130-481-00	FILM	0.0068MF	5%	50V
C531	1-136-153-00	FILM	0.01MF	5%	50V
C532	1-161-494-00	CERAMIC	0.022MF		25V
C533	1-131-388-00	TANTALUM	68MF	10%	6.3V
C534	1-136-160-00	FILM	0.039MF	5%	50V
C535	1-136-169-00	FILM	0.22MF	5%	50V
C536	1-136-172-00	FILM	0.39MF	5%	50V
C537	1-124-462-00	ELECT	10MF	20%	16V
C538	1-136-153-00	FILM	0.01MF	5%	50V
C539	1-136-165-00	FILM	0.1MF	5%	50V
C540	1-136-165-00	FILM	0.1MF	5%	50V
C541	1-161-379-00	CERAMIC	0.01MF	30%	16V
C542	1-161-379-00	CERAMIC	0.01MF	30%	16V
C543	1-136-266-00	FILM	0.22MF	5%	100V
C544	1-161-379-00	CERAMIC	0.01MF	30%	16V
C545	1-136-153-00	FILM	0.01MF	5%	50V
C546	1-124-462-00	ELECT	10MF	20%	16V
C547	1-124-236-00	ELECT	47MF	20%	10V
C548	1-136-173-00	FILM	0.47MF	5%	50V
C549	1-136-169-00	FILM	0.22MF	5%	50V
C550	1-124-462-00	ELECT	10MF	20%	16V
C551	1-124-462-00	ELECT	10MF	20%	16V
C552	1-124-462-00	ELECT	10MF	20%	16V
C553	1-136-167-00	FILM	0.15MF	5%	50V
C554	1-136-157-00	FILM	0.022MF	5%	50V
C555	1-161-494-00	CERAMIC	0.022MF		25V
C556	1-131-388-00	TANTALUM	68MF	10%	6.3V
C557	1-161-329-00	CERAMIC	0.0068MF	30%	16V
C558	1-131-382-00	TANTALUM	6.8MF	10%	6.3V
C559	1-136-153-00	FILM	0.01MF	5%	50V
C560	1-136-153-00	FILM	0.01MF	5%	50V
C561	1-136-157-00	FILM	0.022MF	5%	50V
C562	1-136-157-00	FILM	0.022MF	5%	50V
C563	1-162-294-31	CERAMIC	0.001MF	10%	50V
C564	1-161-379-00	CERAMIC	0.01MF	30%	16V
C565	1-161-379-00	CERAMIC	0.01MF	30%	16V
C566	1-162-290-31	CERAMIC	470PF	10%	50V
C567	1-161-377-00	CERAMIC	0.0047MF	30%	16V
C568	1-162-294-31	CERAMIC	0.001MF	10%	50V
C569	1-124-462-00	ELECT	10MF	20%	16V
C570	1-124-236-00	ELECT	47MF	20%	10V
C571	1-124-236-00	ELECT	47MF	20%	10V
C572	1-124-462-00	ELECT	10MF	20%	16V
C573	1-161-494-00	CERAMIC	0.022MF		25V
C574	1-161-379-00	CERAMIC	0.01MF	30%	16V
C575	1-161-494-00	CERAMIC	0.022MF		25V
C576	1-124-638-11	ELECT	22MF	20%	10V
C577	1-124-638-11	ELECT	22MF	20%	10V
C578	1-161-379-00	CERAMIC	0.01MF	30%	16V
C579	1-161-494-00	CERAMIC	0.022MF		25V
C580	1-124-638-11	ELECT	22MF	20%	10V
C581	1-124-462-00	ELECT	10MF	20%	16V
C582	1-124-638-11	ELECT	22MF	20%	6.3V
C583	1-161-375-00	CERAMIC	0.0022MF	30%	16V
C584	1-124-462-00	ELECT	10MF	20%	16V
C585	1-124-638-11	ELECT	22MF	20%	6.3V
C586	1-161-375-00	CERAMIC	0.0022MF	30%	16V
C587	1-123-661-00	ELECT	100MF	20%	6.3V
C588	1-123-661-00	ELECT	100MF	20%	6.3V
C589	1-124-258-00	ELECT	3.3MF	20%	35V
C590	1-124-258-00	ELECT	3.3MF	20%	35V
C591	1-123-661-00	ELECT	100MF	20%	6.3V
C592	1-124-236-00	ELECT	47MF	20%	10V
C593	1-125-332-00	CAP ,DOUBLE LAYERS	22000MF	0	0
C594	1-125-332-00	CAP ,DOUBLE LAYERS	22000MF	0	0
C595	1-124-236-00	ELECT	47MF	20%	10V
C596	1-124-236-00	ELECT	47MF	20%	10V
C598	1-124-257-00	ELECT	2.2MF	20%	50V
C599	1-161-377-00	CERAMIC	0.0047MF	30%	16V
C600	1-161-377-00	CERAMIC	0.0047MF	30%	16V
C701	1-161-494-00	CERAMIC	0.022MF		25V
C702	1-162-199-31	CERAMIC	10PF	5%	50V
C703	1-162-199-31	CERAMIC	10PF	5%	50V
C704	1-161-494-00	CERAMIC	0.022MF		25V
C705	1-123-661-00	ELECT	100MF	20%	6.3V
C706	1-161-494-00	CERAMIC	0.022MF		25V
C707	1-162-294-31	CERAMIC	0.001MF	10%	50V
C708	1-162-294-31	CERAMIC	0.001MF	10%	50V
C709	1-162-294-31	CERAMIC	0.001MF	10%	50V
C710	1-162-294-31	CERAMIC	0.001MF	10%	50V
C711	1-123-661-00	ELECT	100MF	20%	6.3V
C712	1-161-494-00	CERAMIC	0.022MF		25V
C713	1-123-661-00	ELECT	100MF	20%	6.3V
C714	1-162-284-31	CERAMIC	150PF	10%	50V
C715	1-162-284-31	CERAMIC	150PF	10%	50V
C716	1-130-487-00	MYLAR	0.022MF	5%	50V
C717	1-102-962-00	CERAMIC	30PF	5%	50V
C718	1-102-962-00	CERAMIC	30PF	5%	50V
C719	1-123-661-00	ELECT	100MF	20%	6.3V
C720	1-161-494-00	CERAMIC	0.022MF		25V
C721	1-161-494-00	CERAMIC	0.022MF		25V
C722	1-130-487-00	MYLAR	0.022MF	5%	50V
C723	1-123-661-00	ELECT	100MF	20%	6.3V
C724	1-161-494-00	CERAMIC	0.022MF		25V
C725	1-130-487-00	MYLAR	0.022MF	5%	50V
C801	1-162-851-11	CERAMIC	0.1MF	20%	16V
C802	1-162-851-11	CERAMIC	0.1MF	20%	16V
C803	1-162-851-11	CERAMIC	0.1MF	20%	16V
C804	1-162-851-11	CERAMIC	0.1MF	20%	16V
C806	1-123-661-00	ELECT	100MF	20%	6.3V
C807	1-123-661-00	ELECT	100MF	20%	6.3V
C809	1-162-851-11	CERAMIC	0.1MF	20%	16V
C810	1-102-973-00	CERAMIC	100PF	5%	50V
C811	1-162-294-31	CERAMIC	0.001MF	10%	50V
C812	1-162-851-11	CERAMIC	0.1MF	20%	16V

Ref.No.	Part No.	Description			
C813	1-136-155-00	FILM	0.015MF	5%	50V
C814	1-162-851-11	CERAMIC	0.1MF	20%	16V
C815	1-130-481-00	MYLAR	0.0068MF	5%	50V
C816	1-162-851-11	CERAMIC	0.1MF	20%	16V
C817	1-162-851-11	CERAMIC	0.1MF	20%	16V
C818	1-162-851-11	CERAMIC	0.1MF	20%	16V
C819	1-130-471-00	MYLAR	0.001MF	5%	50V
C820	1-162-201-31	CERAMIC	12PF	5%	50V
C821	1-162-201-31	CERAMIC	12PF	5%	50V
C822	1-162-201-31	CERAMIC	12PF	5%	50V
C823	1-162-201-31	CERAMIC	12PF	5%	50V
C824	1-162-201-31	CERAMIC	12PF	5%	50V
C825	1-162-201-31	CERAMIC	12PF	5%	50V
C826	1-123-661-00	ELECT	100MF	20%	6.3V
C827	1-162-851-11	CERAMIC	0.1MF	20%	16V
C828	1-123-661-00	ELECT	100MF	20%	6.3V
C829	1-123-661-00	ELECT	100MF	20%	6.3V
C830	1-161-375-00	CERAMIC	0.0022MF	30%	16V
C831	1-162-294-31	CERAMIC	0.001MF	10%	50V
C832	1-162-294-31	CERAMIC	0.001MF	10%	50V
C833	1-123-336-00	ELECT	470MF	20%	25V
C852	1-124-638-11	ELECT	22MF	20%	6.3V
C853	1-124-638-11	ELECT	22MF	20%	6.3V
C854	1-124-611-00	ELECT	1MF	20%	50V
C855	1-102-951-00	CERAMIC	15PF	5%	50V
C856	1-162-851-11	CERAMIC	0.1MF	20%	16V
C857	1-124-638-11	ELECT	22MF	20%	6.3V
C858	1-162-282-31	CERAMIC	100PF	10%	50V
C859	1-162-851-11	CERAMIC	0.1MF	20%	16V
C868	1-123-661-00	ELECT	100MF	20%	6.3V
C869	1-123-661-00	ELECT	100MF	20%	6.3V
C870	1-162-851-11	CERAMIC	0.1MF	20%	16V
C871	1-162-305-11	CERAMIC	0.0068MF	30%	16V
C879	1-162-851-11	CERAMIC	0.1MF	20%	16V
C901	1-162-851-11	CERAMIC	0.1MF	20%	16V
C902	1-124-898-11	ELECT	4700MF	20%	16V
C903	1-162-851-11	CERAMIC	0.1MF	20%	16V
C904	1-162-851-11	CERAMIC	0.1MF	20%	16V
C905	1-124-471-00	ELECT	1000MF	20%	6.3V
C906	1-124-913-11	ELECT	470MF	20%	50V
C907	1-124-910-11	ELECT	47MF	20%	35V
C908	1-124-484-11	ELECT	220MF	20%	35V
C909	1-124-898-11	ELECT	4700MF	20%	16V
C910	1-162-851-11	CERAMIC	0.1MF	20%	16V
C911	1-162-851-11	CERAMIC	0.1MF	20%	16V
C912	1-124-471-00	ELECT	1000MF	20%	6.3V
C913	1-162-851-11	CERAMIC	0.1MF	20%	16V
C914	1-124-443-00	ELECT	100MF	20%	6.3V
C915	1-124-898-11	ELECT	4700MF	20%	16V
C916	1-124-471-00	ELECT	1000MF	20%	6.3V
C917	1-162-294-31	CERAMIC	0.001MF	10%	50V
C919	1-126-013-11	ELECT	1000MF	20%	16V
C921	1-162-294-31	CERAMIC	0.001MF	10%	50V
C923	1-126-013-11	ELECT	1000MF	20%	16V
C924	1-125-471-11	ELECT(BLOCK)	4700MF	20%	25V
C925	1-125-471-11	ELECT(BLOCK)	4700MF	20%	25V
C926	1-124-365-00	ELECT	4700MF	20%	16V

Ref.No.	Part No.	Description			
C927	1-124-365-00	ELECT	4700MF	20%	16V
C928	1-123-356-00	ELECT	10MF	20%	16V
C929	1-123-356-00	ELECT	10MF	20%	16V
C930	1-136-165-00	FILM	0.1MF	5%	50V
C931	1-162-851-11	CERAMIC	0.1MF	20%	16V
C941	⚠1-161-742-00	CERAMIC	0.0022MF	20%	400V
C942	⚠1-161-742-00	CERAMIC	0.0022MF	20%	400V
C944	⚠1-161-742-00	CERAMIC	0.0022MF	20%	400V
C945	⚠1-161-744-00	CERAMIC	0.01MF		400V
C946	⚠1-161-741-00	CERAMIC	0.001MF	10%	400V
C947	⚠1-161-741-00	CERAMIC	0.001MF	10%	400V
C948	1-130-691-00	FILM	1MF	10%	125V
C949	1-136-165-00	FILM	0.1MF	5%	50V
C951	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C953	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C954	1-163-133-00	CERAMIC CHIP	470PF	10%	50V
C955	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C956	1-135-101-21	TANTAL. CHIP	22MF	10%	6.3V
C957	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C958	1-163-133-00	CERAMIC CHIP	470PF	10%	50V
C959	1-163-133-00	CERAMIC CHIP	470PF	10%	50V
C960	1-163-143-00	CERAMIC CHIP	0.0012MF	10%	50V
C961	1-163-021-00	CERAMIC CHIP	0.01MF	10%	50V
C962	1-163-818-00	CERAMIC CHIP	0.1MF	10%	50V
C963	1-163-021-00	CERAMIC CHIP	0.01MF	10%	50V
C964	1-163-035-00	CERAMIC CHIP	0.047MF	10%	25V
C965	1-163-077-00	CERAMIC CHIP	0.1MF	10%	25V
C966	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C967	1-135-101-21	TANTAL. CHIP	22MF	10%	6.3V
C968	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C969	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C970	1-135-101-21	TANTAL. CHIP	22MF	10%	6.3V
C971	1-163-077-00	CERAMIC CHIP	0.1MF	10%	25V
C972	1-163-035-00	CERAMIC CHIP	0.047MF	10%	25V
C973	1-163-021-00	CERAMIC CHIP	0.01MF	10%	50V
C974	1-163-818-00	CERAMIC CHIP	0.1MF	10%	50V
C975	1-163-021-00	CERAMIC CHIP	0.01MF	10%	50V
C976	1-163-143-00	CERAMIC CHIP	0.0012MF	10%	50V
C977	1-163-020-00	CERAMIC CHIP	0.0082MF	10%	50V
C978	1-135-091-00	TANTAL. CHIP	1MF	10%	16V
C979	1-163-020-00	CERAMIC CHIP	0.0082MF	10%	50V
C980	1-163-035-00	CERAMIC CHIP	0.047MF	10%	25V
C981	1-163-035-00	CERAMIC CHIP	0.047MF	10%	25V
C982	1-163-133-00	CERAMIC CHIP	470PF	10%	50V
C983	1-163-021-00	CERAMIC CHIP	0.01MF	10%	50V
C984	1-163-133-00	CERAMIC CHIP	470PF	10%	50V
C985	1-163-133-00	CERAMIC CHIP	470PF	10%	50V
C1001	1-123-661-00	ELECT	100MF	20%	6.3V
C1101	1-126-022-11	ELECT	47MF	20%	25V
C1102	1-107-202-00	MICA	10PF	0.5PF	100V
C1103	1-162-851-11	CERAMIC	0.1MF	20%	16V
C1104	1-162-851-11	CERAMIC	0.1MF	20%	16V
C1105	1-136-440-11	FILM	39PF	5%	630V
C1106	1-136-440-11	FILM	39PF	5%	630V
C1107	1-162-851-11	CERAMIC	0.1MF	20%	16V
C1108	1-162-851-11	CERAMIC	0.1MF	20%	16V
C1109	1-126-024-11	ELECT	220MF	20%	25V

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Ref.No.	Part No.	Description			
C1110	1-126-024-11	ELECT	220MF	20%	25V
C1111	1-162-851-11	CERAMIC	0.1MF	20%	16V
C1112	1-162-851-11	CERAMIC	0.1MF	20%	16V
C1113	1-136-271-00	FILM	56PF	5%	630V
C1114	1-136-559-11	FILM	0.0047MF	5%	630V
C1115	1-136-437-11	FILM	220PF	5%	630V
C1116	1-126-059-11	ELECT	10MF	20%	63V
C1117	1-126-059-11	ELECT	10MF	20%	63V
C1118	1-126-022-11	ELECT	47MF	20%	25V
C1119	1-126-022-11	ELECT	47MF	20%	25V
C1120	1-162-851-11	CERAMIC	0.1MF	20%	16V
C1121	1-162-851-11	CERAMIC	0.1MF	20%	16V
C1122	1-126-077-11	ELECT	100MF	20%	100V
C1201	1-126-022-11	ELECT	47MF	20%	25V
C1202	1-107-279-00	MICA	10PF	0.5PF	100V
C1203	1-162-851-11	CERAMIC	0.1MF	20%	16V
C1204	1-162-851-11	CERAMIC	0.1MF	20%	16V
C1205	1-136-440-11	ELECT	39PF	5%	630V
C1206	1-136-440-11	ELECT	39PF	5%	630V
C1207	1-162-851-11	CERAMIC	0.1MF	20%	16V
C1208	1-162-851-11	CERAMIC	0.1MF	20%	16V
C1209	1-126-024-11	ELECT	220MF	20%	25V
C1210	1-126-024-11	ELECT	220MF	20%	25V
C1211	1-162-851-11	CERAMIC	0.1MF	20%	16V
C1212	1-162-851-11	CERAMIC	0.1MF	20%	16V
C1213	1-136-271-00	FILM	56PF	5%	630V
C1214	1-136-559-11	FILM	0.0047MF	5%	630V
C1215	1-136-437-11	FILM	200PF	5%	630V
C1216	1-126-059-11	ELECT	10MF	20%	63V
C1217	1-126-059-11	ELECT	10MF	20%	63V
C1218	1-126-022-11	ELECT	47MF	20%	25V
C1219	1-126-022-11	ELECT	47MF	20%	25V
C1220	1-162-851-11	CERAMIC	0.1MF	20%	16V
C1221	1-162-851-11	CERAMIC	0.1MF	20%	16V
C1222	1-126-077-11	ELECT	100MF	20%	100V
C1301	1-126-027-11	ELECT	1000MF	20%	25V
C1302	1-126-027-11	ELECT	1000MF	20%	25V
C1303	1-162-851-11	CERAMIC	0.1MF	20%	16V
C1304	1-162-851-11	CERAMIC	0.1MF	20%	16V
C1501	1-136-175-00	FILM	0.68MF	5%	50V
C1502	1-136-175-00	FILM	0.68MF	5%	50V
C1503	1-162-211-31	CERAMIC	33PF	5%	50V
C1504	1-162-211-31	CERAMIC	33PF	5%	50V
C1505	1-136-175-00	FILM	0.68MF	5%	50V
C1506	1-136-175-00	FILM	0.68MF	5%	50V
C1507	1-162-211-31	CERAMIC	33PF	5%	50V
C1508	1-162-211-31	CERAMIC	33PF	5%	50V
C1511	1-124-471-00	ELECT	1000MF	20%	6.3V
C1512	1-162-851-11	CERAMIC	0.1MF	20%	16V
C1513	1-162-851-11	CERAMIC	0.1MF	20%	16V
C1514	1-162-851-11	CERAMIC	0.1MF	20%	16V
C1515	1-162-851-11	CERAMIC	0.1MF	20%	16V
C1516	1-162-851-11	CERAMIC	0.1MF	20%	16V
C1517	1-162-851-11	CERAMIC	0.1MF	20%	16V
C1518	1-162-851-11	CERAMIC	0.1MF	20%	16V
C1519	1-162-851-11	CERAMIC	0.1MF	20%	16V
C1520	1-162-851-11	CERAMIC	0.1MF	20%	16V

Ref.No.	Part No.	Description			
C1521	1-162-851-11	CERAMIC	0.1MF	20%	16V
C1522	1-162-851-11	CERAMIC	0.1MF	20%	16V
C1523	1-162-851-11	CERAMIC	0.1MF	20%	16V
C1524	1-162-851-11	CERAMIC	0.1MF	20%	16V
C1860	1-162-851-11	CERAMIC	0.1MF	20%	16V
C1861	1-124-444-00	ELECT	220MF	20%	6.3V
C1862	1-136-153-00	FILM	0.01MF	5%	50V
C1863	1-124-482-11	ELECT	33MF	20%	25V
C1864	1-136-153-00	FILM	0.01MF	5%	50V
C1865	1-124-482-11	ELECT	33MF	20%	25V
C1866	1-162-851-11	CERAMIC	0.1MF	20%	16V
C1867	1-162-851-11	CERAMIC	0.1MF	20%	16V
C1872	1-162-851-11	CERAMIC	0.1MF	20%	16V
C1901	1-124-564-11	ELECT	4700MF	20%	25V
C1902	1-124-564-11	ELECT	4700MF	20%	25V
C1903	1-124-898-11	ELECT	4700MF	20%	16V
C1904	1-162-851-11	CERAMIC	0.1MF	20%	16V
C1905	1-162-851-11	CERAMIC	0.1MF	20%	16V
C1906	1-162-851-11	CERAMIC	0.1MF	20%	16V
C1907	1-162-851-11	CERAMIC	0.1MF	20%	16V
C1908	1-124-557-11	ELECT	1000MF	20%	25V
C1909	1-124-557-11	ELECT	1000MF	20%	25V
C1910	1-124-471-00	ELECT	1000MF	20%	6.3V
C1911	1-162-851-11	CERAMIC	0.1MF	20%	16V
C1912	1-162-851-11	CERAMIC	0.1MF	20%	16V
C1951	⚠1-161-742-00	CERAMIC	0.0022MF	20%	400V
C1953	⚠1-161-742-00	CERAMIC	0.0022MF	20%	400V
C1954	⚠1-161-742-00	CERAMIC	0.0022MF	20%	400V
C1955	⚠1-161-744-00	CERAMIC	0.01MF		400V
C1956	⚠1-161-741-00	CERAMIC	0.001MF	10%	400V
C1957	⚠1-161-741-00	CERAMIC	0.001MF	10%	400V
CN001	*1-564-506-11	PLUG, CONNECTOR 3P			
CN002	*1-564-506-11	PLUG, CONNECTOR 3P			
CN003	*1-564-505-11	PLUG, CONNECTOR 2P			
CN004	*1-564-505-31	PLUG, CONNECTOR 2P			
CN005	*1-564-505-41	PLUG, CONNECTOR 2P			
CN041	*1-564-515-11	PLUG, CONNECTOR 12P			
CN042	*1-564-511-11	PLUG, CONNECTOR 8P			
CN043	*1-564-512-11	PLUG, CONNECTOR 9P			
CN044	*1-564-505-41	PLUG, CONNECTOR 2P			
CN045	*1-564-505-31	PLUG, CONNECTOR 2P			
CN046	*1-564-509-11	PLUG, CONNECTOR 6P			
CN047	*1-564-712-11	PIN, CONNECTOR (SMALL TYPE)10P			
CN048	*1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P			
CN049	*1-564-711-11	PIN, CONNECTOR (SMALL TYPE) 9P			
CN050	*1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P			
CN051	*1-564-520-11	PLUG, CONNECTOR 5P			
CN052	*1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P			
CN054	*1-564-377-11	PIN, CONNECTOR			
CN101	*1-564-506-11	PLUG, CONNECTOR 3P			
CN121	*1-564-505-11	PLUG, CONNECTOR 2P			
CN122	*1-564-505-31	PLUG, CONNECTOR 2P			
CN123	*1-564-505-11	PLUG, CONNECTOR 2P			
CN124	*1-564-505-31	PLUG, CONNECTOR 2P			
CN125	*1-564-505-11	PLUG, CONNECTOR 2P			
CN126	*1-564-505-31	PLUG, CONNECTOR 2P			
CN171	*1-564-511-11	PLUG, CONNECTOR 8P			
CN181	*1-564-509-11	PLUG, CONNECTOR 6P			

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Ref.No.	Part No.	Description
CN182	*1-564-508-11	PLUG, CONNECTOR 5P
CN184	*1-564-507-31	PLUG, CONNECTOR 4P
CN191	*1-564-506-11	PLUG, CONNECTOR 3P
CN192	*1-564-506-11	PLUG, CONNECTOR 3P
CN193	*1-535-116-00	TERMINAL
CN194	*1-535-116-00	TERMINAL
CN211	*1-564-519-11	PLUG, CONNECTOR 4P
CN213	*1-564-507-31	PLUG, CONNECTOR 4P
CN215	*1-564-506-11	PLUG, CONNECTOR 3P
CN231	*1-564-507-11	PLUG, CONNECTOR 4P
CN232	1-564-519-31	PLUG, CONNECTOR 4P
CN300	*1-564-506-11	PLUG, CONNECTOR 3P
CN321	*1-564-505-11	PLUG, CONNECTOR 2P
CN322	*1-564-511-11	PLUG, CONNECTOR 8P
CN401	*1-563-370-11	CONNECTOR, F.P.C 14P
CN451	*1-564-727-11	PIN, CONNECTOR (SMALL TYPE)11P
CN501	*1-564-508-11	PLUG, CONNECTOR 5P
CN502	*1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P
CN503	*1-564-505-11	PLUG, CONNECTOR 2P
CN504	*1-562-883-11	SOCKET, CONNECTOR 20P
CN505	*1-564-511-11	PLUG, CONNECTOR 8P
CN506	*1-564-515-11	PLUG, CONNECTOR 12P
CN541	*1-564-713-11	PIN, CONNECTOR (SMALL TYPE)11P
CN571	*1-564-596-11	PLUG, CONNECTOR 15P
CN572	*1-564-505-41	PLUG, CONNECTOR 2P
CN581	*1-564-511-21	PLUG, CONNECTOR 8P
CN582	*1-564-509-11	PLUG, CONNECTOR 6P
CN583	*1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P
CN591	*1-564-511-11	PLUG, CONNECTOR 8P
CN592	*1-564-505-31	PLUG, CONNECTOR 2P
CN593	*1-564-507-11	PLUG, CONNECTOR 4P
CN596	*1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P
CN711	*1-564-511-11	PLUG, CONNECTOR 8P
CN741	*1-564-596-11	PLUG, CONNECTOR 15P
CN751	*1-564-509-11	PLUG, CONNECTOR 6P
CN752	*1-564-505-41	PLUG, CONNECTOR 2P
CN781	*1-564-513-11	PLUG, CONNECTOR 10P
CN782	*1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P
CN783	*1-564-512-11	PLUG, CONNECTOR 9P
CN793	*1-564-339-00	PIN, CONNECTOR 5P
CN794	*1-564-666-11	PIN, CONNECTOR 10P
CN795	*1-564-337-81	PIN, CONNECTOR 3P
CN796	*1-564-507-11	PLUG, CONNECTOR 4P
CN797	*1-564-342-11	PIN, CONNECTOR 8P
CN801	*1-564-509-11	PLUG, CONNECTOR 6P
CN811	*1-564-509-11	PLUG, CONNECTOR 6P
CN812	*1-564-508-11	PLUG, CONNECTOR 5P
CN813	*1-564-507-31	PLUG, CONNECTOR 4P
CN851	*1-564-511-21	PLUG, CONNECTOR 8P
CN852	*1-564-509-11	PLUG, CONNECTOR 6P
CN853	*1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P
CN871	*1-564-514-11	PLUG, CONNECTOR 11P
CN872	*1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P
CN873	*1-564-513-31	PLUG, CONNECTOR 10P
CN881	*1-564-342-51	PIN, CONNECTOR 8P
CN882	*1-564-341-51	PIN, CONNECTOR 7P
CN883	*1-564-338-61	PIN, CONNECTOR 4P

Ref.No.	Part No.	Description
CN887	*1-564-340-51	PIN, CONNECTOR 6P
CN891	*1-564-506-11	PLUG, CONNECTOR 3P
CN892	*1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P
CN893	*1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P
CN901	*1-564-506-11	PLUG, CONNECTOR 3P
CN902	*1-535-116-00	TERMINAL
CN903	*1-535-116-00	TERMINAL
CN904	*1-564-506-11	PLUG, CONNECTOR 3P
CN906	*1-564-506-11	PLUG, CONNECTOR 3P
CN907	*1-564-506-11	PLUG, CONNECTOR 3P
CN908	*1-564-506-11	PLUG, CONNECTOR 3P
CN909	*1-564-505-11	PLUG, CONNECTOR 2P
CN911	*1-535-116-00	TERMINAL
CN912	*1-535-120-00	TERMINAL
CN950	*1-564-511-11	PLUG, CONNECTOR 8P
CN951	1-564-722-11	PIN, CONNECTOR (SMALL TYPE) 6P
CN952	1-564-729-11	PIN, CONNECTOR (SMALL TYPE)13P
CN953	*1-564-505-11	PLUG, CONNECTOR 2P
CN954	*1-564-505-11	PLUG, CONNECTOR 2P
CN955	*1-564-505-31	PLUG, CONNECTOR 2P
CN981	*1-564-506-11	PLUG, CONNECTOR 3P
CN1001	*1-564-505-11	PLUG, CONNECTOR 2P
CN1002	1-564-521-21	PLUG, CONNECTOR 6P
CN1031	1-564-519-31	PLUG, CONNECTOR 4P
CN1032	*1-564-519-11	PLUG, CONNECTOR 4P
CN1051	*1-564-726-11	PIN, CONNECTOR (SMALL TYPE) 10P
CN1052	*1-564-724-11	PIN, CONNECTOR (SMALL TYPE) 8P
CN1053	1-564-523-41	PLUG, CONNECTOR 8P
CN1091	*1-564-517-11	PLUG, CONNECTOR 2P
CN1101	*1-564-506-11	PLUG, CONNECTOR 3P
CN1102	*1-564-506-11	PLUG, CONNECTOR 3P
CN1103	*1-564-507-11	PLUG, CONNECTOR 4P
CN1104	*1-564-507-21	PLUG, CONNECTOR 4P
CN1201	*1-564-506-11	PLUG, CONNECTOR 3P
CN1202	*1-564-506-11	PLUG, CONNECTOR 3P
CN1203	*1-564-507-31	PLUG, CONNECTOR 4P
CN1204	*1-564-507-41	PLUG, CONNECTOR 4P
CN1301	*1-564-507-31	PLUG, CONNECTOR 4P
CN1302	*1-564-507-11	PLUG, CONNECTOR 4P
CN1391	*1-564-508-11	PLUG, CONNECTOR 5P
CN1501	*1-564-509-11	PLUG, CONNECTOR 6P
CN1502	*1-564-509-11	PLUG, CONNECTOR 6P
CN1503	*1-564-507-11	PLUG, CONNECTOR 4P
CN1504	*1-564-509-11	PLUG, CONNECTOR 6P
CN1507	*1-564-505-41	PLUG, CONNECTOR 2P
CN1509	*1-564-513-11	PLUG, CONNECTOR 10P
CN1510	*1-564-511-41	PLUG, CONNECTOR 8P
CN1511	*1-564-511-11	PLUG, CONNECTOR 8P
CN1571	*1-564-510-11	PLUG, CONNECTOR 7P
CN1771	*1-564-495-11	PIN, CONNECTOR 2P
CN1772	*1-564-496-11	PIN, CONNECTOR 3P
CN1791	*1-564-518-11	PLUG, CONNECTOR 3P
CN1901	*1-564-505-11	PLUG, CONNECTOR 2P
CN1931	*1-564-508-11	PLUG, CONNECTOR 5P
CN1971	*1-564-506-11	PLUG, CONNECTOR 3P
CN1991	*1-564-506-11	PLUG, CONNECTOR 3P

Ref.No.	Part No.	Description
CNJ301	1-507-898-11	JACK, PIN 2P
CNJ302	1-507-898-11	JACK, PIN 2P
CNJ901	1-563-891-31	SOCKET, D-SUB CONNECTOR 25P
CNJ991	1-562-261-21	CONNECTOR, COAXIAL (BNC)
CNJ1001	1-563-079-11	JACK, PIN 1P
CNJ1002	1-507-796-21	JACK
CNJ1031	1-507-898-11	JACK, PIN 2P
CNJ1032	1-507-898-11	JACK, PIN 2P
CNJ1902	1-562-261-21	CONNECTOR, COAXIAL (BNC)
CNJ1904	1-563-891-31	SOCKET, D-SUB CONNECTOR 25P
CNJ1905	1-509-184-31	CONNECTOR (RECEPTACLE) 3P
CNJ1906	1-509-184-31	CONNECTOR (RECEPTACLE) 3P
CNJ1907	*1-509-176-31	CONNECTOR (RECEPTACLE) 3P
CNJ1908	1-509-176-31	CONNECTOR (RECEPTACLE) 3P
CNJ1909	1-509-184-31	CONNECTOR (RECEPTACLE) 3P
CNJ1910	1-509-176-31	CONNECTOR (RECEPTACLE) 3P
CNP1901	1-562-261-21	CONNECTOR, COAXIAL (BNC)
CNP1902	1-562-261-21	CONNECTOR, COAXIAL (BNC)
CNP1903	1-562-261-21	CONNECTOR, COAXIAL (BNC)
CNP1904	1-562-261-21	CONNECTOR, COAXIAL (BNC)
CNP1905	1-562-261-21	CONNECTOR, COAXIAL (BNC)
CNP1906	1-562-261-21	CONNECTOR, COAXIAL (BNC)
CNT51	*1-560-065-00	PIN, CONNECTOR 8P
CNT52	*1-560-062-00	PIN, CONNECTOR 4P
CNT53	*1-564-506-11	PLUG, CONNECTOR 3P
CNT54	*1-564-506-11	PLUG, CONNECTOR 3P
CNT55	*1-560-064-00	PIN, CONNECTOR 6P
CNT56	*1-564-509-11	PLUG, CONNECTOR 6P
CP501	1-232-976-11	COMPOSITION CIRCUIT BLOCK
CP502	1-232-976-11	COMPOSITION CIRCUIT BLOCK
CP503	1-232-976-11	COMPOSITION CIRCUIT BLOCK
CP504	1-233-061-11	COMPOSITION CIRCUIT BLOCK
CP505	1-232-955-11	COMPOSITION CIRCUIT BLOCK
CP506	1-233-093-11	COMPOSITION CIRCUIT BLOCK
CP507	1-232-997-11	COMPOSITION CIRCUIT BLOCK
CP508	1-233-094-11	COMPOSITION CIRCUIT BLOCK
CP509	1-233-092-11	COMPOSITION CIRCUIT BLOCK
CP510	1-233-092-11	COMPOSITION CIRCUIT BLOCK
CP701	1-233-006-11	COMPOSITION CIRCUIT BLOCK
CP702	1-232-953-11	COMPOSITION CIRCUIT BLOCK
CP703	1-232-816-11	COMPOSITION CIRCUIT BLOCK
CP704	1-232-816-11	COMPOSITION CIRCUIT BLOCK
CP705	1-233-081-11	COMPOSITION CIRCUIT BLOCK
D001	8-719-200-77	DIODE 10E2N
D031	8-719-940-76	DIODE 1SS132
D032	8-719-940-76	DIODE 1SS132
D033	8-719-940-76	DIODE 1SS132
D034	8-719-940-76	DIODE 1SS132
D035	8-719-940-76	DIODE 1SS132
D036	8-719-940-76	DIODE 1SS132
D037	8-719-940-76	DIODE 1SS132
D038	8-719-940-76	DIODE 1SS132
D039	8-719-940-76	DIODE 1SS132
D040	8-719-940-76	DIODE 1SS132
D041	8-719-940-76	DIODE 1SS132
D042	8-719-940-76	DIODE 1SS132
D043	8-719-940-76	DIODE 1SS132
D044	8-719-940-76	DIODE 1SS132

Ref.No.	Part No.	Description
D045	8-719-940-76	DIODE 1SS132
D046	8-719-940-76	DIODE 1SS132
D047	8-719-940-76	DIODE 1SS132
D048	8-719-940-76	DIODE 1SS132
D050	8-719-946-30	DIODE SLR-34DC3
D051-1	8-719-940-76	DIODE 1SS132
D051-2	8-719-940-82	DIODE SLR-34MC3
D052	8-719-940-76	DIODE 1SS132
D101	8-719-940-76	DIODE 1SS132
D102	8-719-815-55	DIODE 1S1555
D103	8-719-815-55	DIODE 1S1555
D104	8-719-815-55	DIODE 1S1555
D105	8-719-910-95	DIODE HZ9B2L
D201	8-719-940-76	DIODE 1SS132
D202	8-719-815-55	DIODE 1S1555
D203	8-719-815-55	DIODE 1S1555
D204	8-719-815-55	DIODE 1S1555
D205	8-719-910-95	DIODE HZ9B2L
D301	8-719-910-95	DIODE HZ9B2L
D302	8-719-910-95	DIODE HZ9B2L
D303	8-719-224-12	DIODE 10YD1.3
D304	8-719-224-12	DIODE 10YD1.3
D305	8-719-940-76	DIODE 1SS132
D306	8-719-940-76	DIODE 1SS132
D307	8-719-940-76	DIODE 1SS132
D308	8-719-940-76	DIODE 1SS132
D401	8-719-100-95	DIODE 1S2837
D402	8-719-100-95	DIODE 1S2837
D501	8-719-940-76	DIODE 1SS132
D502	8-719-200-77	DIODE 10E2N
D503	8-719-940-76	DIODE 1SS132
D504	8-719-940-76	DIODE 1SS132
D505	8-719-940-76	DIODE 1SS132
D506	8-719-921-13	DIODE HZ2CLL
D507	8-719-200-77	DIODE 10E2N
D508	8-719-940-76	DIODE 1SS132
D509	8-719-200-77	DIODE 10E2N
D510	8-719-940-76	DIODE 1SS132
D511	8-719-940-76	DIODE 1SS132
D701	8-719-940-76	DIODE 1SS132
D702	8-719-940-76	DIODE 1SS132
D703	8-719-940-76	DIODE 1SS132
D704	8-719-940-76	DIODE 1SS132
D705	8-719-940-76	DIODE 1SS132
D706	8-719-940-76	DIODE 1SS132
D707	8-719-940-76	DIODE 1SS132
D708	8-719-940-76	DIODE 1SS132
D709	8-719-940-76	DIODE 1SS132
D710	8-719-940-76	DIODE 1SS132
D712	8-719-940-76	DIODE 1SS132
D713	8-719-940-76	DIODE 1SS132
D714	8-719-940-76	DIODE 1SS132
D715	8-719-940-76	DIODE 1SS132
D717	8-719-940-76	DIODE 1SS132
D718	8-719-940-76	DIODE 1SS132
D719	8-719-940-76	DIODE 1SS132
D720	8-719-940-76	DIODE 1SS132
D751	8-719-902-25	DIODE SLR-34DU5

Ref.No.	Part No.	Description
D752	8-719-812-31	DIODE TLR123
D753	8-719-902-77	DIODE SLR-34PC5
D754	8-719-812-31	DIODE TLR123
D801	8-719-940-76	DIODE 1SS132
D802	8-719-940-76	DIODE 1SS132
D901	9-983-884-01	DIODE 10DF6
D902	8-719-200-77	DIODE 10E2N
D903	8-719-200-77	DIODE 10E2N
D904	8-719-913-32	DIODE HZ33-2L
D905	8-719-940-76	DIODE 1SS132
D906	8-719-940-76	DIODE 1SS132
D907	8-719-302-38	DIODE RBV-602-01
D908	8-719-302-38	DIODE RBV-602-01
D909	8-719-951-12	DIODE HZ5BLL
D911	8-719-230-11	DIODE 30DF1-FC
D912	8-719-230-11	DIODE 30DF1-FC
D913	8-719-230-11	DIODE 30DF1-FC
D914	8-719-230-11	DIODE 30DF1-FC
D915	8-719-230-11	DIODE 30DF1-FC
D916	8-719-230-11	DIODE 30DF1-FC
D917	8-719-230-11	DIODE 30DF1-FC
D918	8-719-230-11	DIODE 30DF1-FC
D919	8-719-940-76	DIODE 1SS132
D999	1-807-823-11	BARISTOR
D1101	8-719-940-76	DIODE 1SS132
D1102	8-719-940-76	DIODE 1SS132
D1201	8-719-940-76	DIODE 1SS132
D1202	8-719-940-76	DIODE 1SS132
D1301	8-719-940-76	DIODE 1SS132
D1302	8-719-940-76	DIODE 1SS132
D1501	8-719-940-76	DIODE 1SS132
D1502	8-719-940-76	DIODE 1SS132
D1503	8-719-940-76	DIODE 1SS132
D1504	8-719-940-76	DIODE 1SS132
D1505	8-719-940-76	DIODE 1SS132
D1506	8-719-940-76	DIODE 1SS132
D1507	8-719-940-76	DIODE 1SS132
D1508	8-719-940-76	DIODE 1SS132
D1509	8-719-940-76	DIODE 1SS132
D1510	8-719-940-76	DIODE 1SS132
D1511	8-719-940-76	DIODE 1SS132
D1512	8-719-940-76	DIODE 1SS132
D1513	8-719-940-76	DIODE 1SS132
D1514	8-719-940-76	DIODE 1SS132
D1515	8-719-940-76	DIODE 1SS132
D1516	8-719-940-76	DIODE 1SS132
D1517	8-719-940-76	DIODE 1SS132
D1518	8-719-940-76	DIODE 1SS132
D1519	8-719-940-76	DIODE 1SS132
D1520	8-719-940-76	DIODE 1SS132
D1901	8-719-951-12	DIODE HZ5BLL
D1902	9-983-884-01	DIODE 10DF6
D1903	9-983-884-01	DIODE 10DF6
D1904	9-983-884-01	DIODE 10DF6
D1905	8-719-200-77	DIODE 10E2N
D1906	8-719-200-77	DIODE 10E2N
D1907	8-719-510-60	DIODE S1RBA10
D1920	8-719-902-77	DIODE SLR-34PC5

Ref.No.	Part No.	Description
FL701	1-519-414-11	INDICATOR TUBE, FLUORESCENT
IC951	8-752-030-73	IC CXA1045Q
IC031	8-759-916-98	IC SN74HC377N
IC032	8-759-202-32	IC TC74HC163P
IC033	8-759-202-74	IC TC74HC04P
IC034	8-759-202-78	IC TC74HC51P
IC035	8-759-202-86	IC TC74HC123P
IC036	8-759-202-11	IC TC74HC00P
IC037	8-759-202-11	IC TC74HC00P
IC038	8-759-202-74	IC TC74HC04P
IC039	8-759-202-11	IC TC74HC00P
IC043	8-759-911-40	IC SN74S140N
IC041	8-759-202-55	IC TC74HC244P
IC042	8-759-202-55	IC TC74HC244P
IC101	8-759-602-83	IC M5238P
IC102	8-759-910-77	IC LF353N/GLEA312
IC103	8-759-910-77	IC LF353N/GLEA312
IC104	8-752-001-80	IC CX20018
IC105	8-759-910-77	IC LF353N/GLEA312
IC201	8-759-602-83	IC M5238P
IC202	8-759-910-77	IC LF353N/GLEA312
IC203	8-759-910-77	IC LF353N/GLEA312
IC204	8-752-001-80	IC CX20018
IC205	8-759-910-77	IC LF353N/GLEA312
IC301	8-759-700-20	IC NJM79M05A
IC302	8-759-910-83	IC TL072ACP
IC303	8-759-933-62	IC SAA7220P
IC304	8-759-939-94	IC TDA1541-N5
IC305	8-759-910-83	IC TL072ACP
IC306	8-759-145-57	IC UPC4557C
IC307	8-759-145-58	IC NJM4558D
IC308	8-759-604-47	IC M5F7905
IC309	8-759-604-29	IC M5F7805
IC310	8-759-745-61	IC NJM4560D-D
IC311	8-759-916-29	IC SN74HC74N
IC401	8-752-017-40	IC CX20174
IC402	8-759-100-95	IC UPC324G2
IC403	8-759-100-93	IC UPC393G2
IC501	8-759-001-00	IC TC74HC132N
IC502	8-759-202-24	IC TC74HC86P
IC503	8-759-208-14	IC TC4066BPHB
IC504	8-759-208-10	IC TC4053BPHB
IC505	8-759-132-40	IC UPC324C
IC506	8-759-133-90	IC UPC339C
IC507	8-759-701-42	IC NJU8001D
IC508	8-759-132-40	IC UPC324C
IC509	8-759-701-42	IC NJU8001D
IC510	8-759-230-01	IC TMP47C800N-2124
IC511	8-759-240-69	IC TC4069UBP
IC512	8-759-208-77	IC TMP47C460AF-9469
IC513	8-759-202-11	IC TC74HC00P
IC514	8-759-203-01	IC TC74HC175P
IC515	8-752-304-30	IC CX23043
IC516	8-759-202-32	IC TC74HC163P
IC517	8-759-245-38	IC TC4538BP
IC518	8-759-933-80	IC CXD1052Q
IC519	8-759-135-80	IC UPC358C
IC520	8-759-914-44	IC TL431CLPB

Ref.No.	Part No.	Description
IC521	8-759-345-38	IC HD14538BP
IC522	8-759-203-73	IC TC74HC4066P
IC523	8-759-909-45	IC CX20084
IC524	8-759-914-44	IC TL431CLPB
IC525	8-759-135-80	IC UPC358C
IC526	8-759-132-40	IC UPC324C
IC527	8-752-030-63	IC CXA1046M
IC528	8-759-240-51	IC TC4051BP
IC529	8-759-240-51	IC TC4051BP
IC530	8-759-135-80	IC UPC358C
IC531	8-759-132-40	IC UPC324C
IC532	8-759-103-93	IC UPC393C
IC533	8-759-135-80	IC UPC358C
IC534	8-759-103-93	IC UPC393C
IC535	8-759-202-11	IC TC74HC00P
IC536	8-759-208-10	IC TC4053BPHB
IC537	8-759-910-70	IC MB3763PS
IC538	8-759-801-60	IC LB1640N
IC701	8-759-700-48	IC NJM2903S
IC702	8-759-240-69	IC TC4069UBP
IC703	8-759-906-34	IC MSM58422-15GS
IC704	8-759-800-57	IC LB1262
IC705	8-752-802-84	IC CXP5058H-033Q
IC706	8-759-603-83	IC M50760-428P
IC801	8-759-927-60	IC MB81416-10P
IC802	8-759-927-60	IC MB81416-10P
IC805	8-759-932-23	IC TLC272CP
IC806	8-759-932-23	IC TLC272CP
IC807	8-759-933-85	IC CXD1009Q
IC808	8-759-933-84	IC CXD1008Q
IC851	8-759-945-98	IC CXD1146Q
IC852	8-759-918-71	IC CX23065
IC853	8-759-906-24	IC SN74LS624N
IC854	8-759-938-76	IC CXD1110Q
IC901	8-759-700-20	IC NJM79M05A
IC902	8-759-604-29	IC M5F7805
IC903	8-759-202-74	IC TC74HC04P
IC951	8-759-030-73	IC CXA1045Q
IC1101	8-759-900-72	IC NE5532P
IC1102	8-759-900-72	IC NE5532P
IC1103	8-759-745-56	IC NJM4556D
IC1104	8-759-900-72	IC NE5532P
IC1105	8-759-900-72	IC NE5532P
IC1201	8-759-900-72	IC NE5532P
IC1202	8-759-900-72	IC NE5532P
IC1203	8-759-745-56	IC NJM4556D
IC1204	8-759-900-72	IC NE5532P
IC1205	8-759-900-72	IC NE5532P
IC1501	8-759-011-90	IC MC34050P
IC1502	8-759-202-74	IC TC74HC04P
IC1503	8-759-202-15	IC TC74HC10P
IC1504	8-759-202-11	IC TC74HC00P
IC1505	8-759-202-21	IC TC74HC32P
IC1506	8-759-202-15	IC TC74HC10P
IC1507	8-759-000-99	IC MC74HC74N
IC1508	8-759-202-11	IC TC74HC00P
IC1509	8-759-202-15	IC TC74HC10P

Ref.No.	Part No.	Description
IC1510	8-759-001-39	IC MC74HC164N
IC1511	8-759-001-39	IC MC74HC164N
IC1512	8-759-202-74	IC TC74HC04P
IC1513	8-759-920-45	IC CX23070
IC1514	8-759-920-45	IC CX23070
IC1515	8-759-011-90	IC MC34050P
IC1516	8-759-911-40	IC SN74S140N
IC1517	8-759-911-40	IC SN74S140N
IC1518	8-759-202-55	IC TC74HC244P
IC1519	8-759-202-33	IC TC74HC240P
IC1520	8-759-004-63	IC MC74HC125N
IC1855	8-759-202-13	IC TC74HCU04P
IC1856	8-759-202-13	IC TC74HCU04P
IC1901	8-759-171-15	IC UPC7815H
IC1902	8-759-604-52	IC M5F7915
IC1903	8-759-604-29	IC M5F7805
IC1904	8-749-900-36	IC BX-1393
J301	1-507-796-21	JACK
L031	1-410-328-11	MICRO INDUCTOR 10UH
L306	1-408-563-00	MICRO INDUCTOR 10UH
L307	1-408-563-00	MICRO INDUCTOR 10UH
L308	1-408-563-00	MICRO INDUCTOR 10UH
L501	1-410-336-11	MICRO INDUCTOR 220UH
L701	1-410-328-11	MICRO INDUCTOR 10UH
L702	1-410-328-11	MICRO INDUCTOR 10UH
L703	1-410-328-11	MICRO INDUCTOR 10UH
L704	1-410-328-11	MICRO INDUCTOR 10UH
L705	1-410-328-11	MICRO INDUCTOR 10UH
L801	1-407-182-XX	MICRO INDUCTOR 2.2UH
L802	1-410-328-11	MICRO INDUCTOR 10UH
L803	1-408-117-00	MICRO INDUCTOR 10UH
L804	1-410-328-11	MICRO INDUCTOR 10UH
L851	1-410-328-11	MICRO INDUCTOR 10UH
L852	1-410-328-11	MICRO INDUCTOR 10UH
L901	1-410-328-11	MICRO INDUCTOR 10UH
L941	⚠1-421-915-11	COIL, LINE FILTER
L951	1-408-777-00	INDUCTOR CHIP 10UH
L952	1-408-791-00	INDUCTOR CHIP 150UH
L953	1-408-791-00	INDUCTOR CHIP 150UH
L1852	1-410-328-11	MICRO INDUCTOR 10UH
L1951	⚠1-421-960-11	TRANSFORMER, LINE FILTER
LPF101	1-464-764-11	FILTER UNIT, LOW PASS
LPF201	1-464-764-11	FILTER UNIT, LOW PASS
LPF1101	1-464-629-11	FILTER UNIT, LOW PASS
LPF1201	1-464-629-11	FILTER UNIT, LOW PASS
M1	1-541-445-11	MOTOR
M2	A-4608-303-A	MOTOR ASSY, LOADING
M901	8-835-205-01	MOTOR, DC U-2A
M902	8-835-206-01	MOTOR, DC BHF-2803A
M903	X-3337-626-1	MOTOR ASSY, L
M904	8-848-501-01	DRUM ASSY DOH-01A
PH901	1-807-698-11	PHOTO SENSOR
PH902	1-807-698-11	PHOTO SENSOR
PL1	1-518-614-11	LAMP, PILOT
PL2	1-518-614-11	LAMP, PILOT

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description
Q031	8-729-900-89	TRANSISTOR DTC144ES
Q032	8-729-900-89	TRANSISTOR DTC144ES
Q036	8-729-900-65	TRANSISTOR DTA144ES
Q037	8-729-900-65	TRANSISTOR DTA144ES
Q038	8-729-900-65	TRANSISTOR DTA144ES
Q039	8-729-900-65	TRANSISTOR DTA144ES
Q040	8-729-900-65	TRANSISTOR DTA144ES
Q041	8-729-900-65	TRANSISTOR DTA144ES
Q042	8-729-900-65	TRANSISTOR DTA144ES
Q043	8-729-900-65	TRANSISTOR DTA144ES
Q101	8-729-800-42	TRANSISTOR 2SK152
Q102	8-729-194-57	TRANSISTOR 2SC945
Q201	8-729-800-42	TRANSISTOR 2SK152
Q202	8-729-194-57	TRANSISTOR 2SC945
Q301	8-729-600-27	TRANSISTOR 2SC634SP
Q302	8-729-201-52	TRANSISTOR 2SA1015
Q303	8-729-600-27	TRANSISTOR 2SC634SP
Q304	8-729-201-52	TRANSISTOR 2SA1015
Q305	8-729-600-27	TRANSISTOR 2SC634SP
Q306	8-729-201-52	TRANSISTOR 2SA1015
Q307	8-729-167-62	TRANSISTOR 2SC2676
Q308	8-729-127-53	TRANSISTOR 2SC2275-P
Q309	8-729-167-62	TRANSISTOR 2SC2676
Q310	8-729-113-82	TRANSISTOR 2SA1138
Q311	8-729-113-82	TRANSISTOR 2SA1138
Q312	8-729-190-53	TRANSISTOR 2SA985A
Q313	8-729-113-82	TRANSISTOR 2SA1138
Q314	8-729-167-62	TRANSISTOR 2SC2676
Q401	8-729-100-75	TRANSISTOR 2SA812-M5
Q402	8-729-202-86	TRANSISTOR 2SA1242LB
Q403	8-729-901-01	TRANSISTOR DTC144EK
Q404	8-729-901-01	TRANSISTOR DTC144EK
Q405	8-729-903-82	TRANSISTOR FMW2
Q406	8-729-903-82	TRANSISTOR FMW2
Q501	8-729-600-27	TRANSISTOR 2SC634SP
Q502	8-729-104-93	TRANSISTOR 2SB1040A
Q503	8-729-117-54	TRANSISTOR 2SA1175
Q504	8-729-699-51	TRANSISTOR 2SA995-F
Q505	8-729-625-91	TRANSISTOR 2SC2259-F
Q506	8-729-117-54	TRANSISTOR 2SA1175
Q507	8-729-600-27	TRANSISTOR 2SC634SP
Q508	8-729-117-54	TRANSISTOR 2SA1175
Q509	8-729-600-27	TRANSISTOR 2SC634SP
Q510	8-729-117-54	TRANSISTOR 2SA1175
Q511	8-729-600-27	TRANSISTOR 2SC634SP
Q512	8-729-202-02	TRANSISTOR 2SB1015
Q513	8-729-806-34	TRANSISTOR 2SC3400
Q514	8-729-117-54	TRANSISTOR 2SA1175
Q515	8-729-117-54	TRANSISTOR 2SA1175
Q516	8-729-600-27	TRANSISTOR 2SC634SP
Q517	8-729-402-02	TRANSISTOR 2SK656
Q518	8-729-600-27	TRANSISTOR 2SC634SP
Q519	8-729-600-27	TRANSISTOR 2SC634SP
Q520	8-729-600-27	TRANSISTOR 2SC634SP
Q521	8-729-806-16	TRANSISTOR 2SA1346
Q522	8-729-806-16	TRANSISTOR 2SA1346
Q523	8-729-806-34	TRANSISTOR 2SC3400

Ref.No.	Part No.	Description
Q524	8-729-806-34	TRANSISTOR 2SC3400
Q525	8-729-806-34	TRANSISTOR 2SC3400
Q526	8-729-600-27	TRANSISTOR 2SC634SP
Q527	8-729-202-02	TRANSISTOR 2SB1015
Q528	8-729-600-27	TRANSISTOR 2SC634SP
Q529	8-729-202-02	TRANSISTOR 2SB1015
Q530	8-729-600-27	TRANSISTOR 2SC634SP
Q531	8-729-117-54	TRANSISTOR 2SA1175
Q532	8-729-117-54	TRANSISTOR 2SA1175
Q533	8-729-629-12	TRANSISTOR 2SC2291
Q534	8-729-600-27	TRANSISTOR 2SC634SP
Q535	8-729-600-27	TRANSISTOR 2SC634SP
Q536	8-729-117-54	TRANSISTOR 2SA1175
Q537	8-729-117-54	TRANSISTOR 2SA1175
Q538	8-729-629-12	TRANSISTOR 2SC2291
Q539	8-729-600-27	TRANSISTOR 2SC634SP
Q540	8-729-806-34	TRANSISTOR 2SC3400
Q541	8-729-806-16	TRANSISTOR 2SA1346
Q542	8-729-801-93	TRANSISTOR 2SD1387
Q543	8-729-806-34	TRANSISTOR 2SC3400
Q544	8-729-806-34	TRANSISTOR 2SC3400
Q545	8-729-801-83	TRANSISTOR 2SB1013
Q546	8-729-801-93	TRANSISTOR 2SD1387
Q547	8-729-806-34	TRANSISTOR 2SC3400
Q548	8-729-154-82	TRANSISTOR 2SB548-R
Q549	8-729-806-34	TRANSISTOR 2SC3400
Q550	8-729-806-16	TRANSISTOR 2S1346
Q551	8-729-806-34	TRANSISTOR 2SC3400
Q552	8-729-806-34	TRANSISTOR 2SC3400
Q560	8-729-806-34	TRANSISTOR 2SC3400
Q561	8-729-806-34	TRANSISTOR 2SC3400
Q701	8-729-806-34	TRANSISTOR 2SC3400
Q702	8-729-806-34	TRANSISTOR 2SC3400
Q703	8-729-806-34	TRANSISTOR 2SC3400
Q704	8-729-117-54	TRANSISTOR 2SA1175
Q705	8-729-117-54	TRANSISTOR 2SA1175
Q706	8-729-117-54	TRANSISTOR 2SA1175
Q707	8-729-806-38	TRANSISTOR 2SC3399
Q708	8-729-117-54	TRANSISTOR 2SA1175
Q803	8-729-600-27	TRANSISTOR 2SC634SP
Q804	8-729-117-54	TRANSISTOR 2SA1175
Q805	8-729-806-34	TRANSISTOR 2SC3400
Q851	8-729-100-12	TRANSISTOR 2SC2001-L
Q852	8-729-100-12	TRANSISTOR 2SC2001-L
Q856	8-729-806-34	TRANSISTOR 2SC3400
Q857	8-729-806-34	TRANSISTOR 2SC3400
Q901	8-729-173-13	TRANSISTOR 2SB731
Q902	8-729-600-27	TRANSISTOR 2SC634SP
Q903	8-729-600-27	TRANSISTOR 2SC634SP
Q904	8-729-117-54	TRANSISTOR 2SA1175
Q905	8-729-111-67	TRANSISTOR 2SB1094-L
Q906	8-729-600-27	TRANSISTOR 2SC634SP
Q907	8-729-600-27	TRANSISTOR 2SC634SP
Q908	8-729-117-54	TRANSISTOR 2SA1175
Q909	8-729-111-67	TRANSISTOR 2SB1094-L
Q1301	8-729-117-54	TRANSISTOR 2SA1175
Q1302	8-729-806-38	TRANSISTOR 2SC3399

Ref.No.	Part No.	Description				
Q1303	8-729-806-38	TRANSISTOR 2SC3399				
Q1304	8-729-117-54	TRANSISTOR 2SA1175				
R001	1-249-405-11	CARBON	100	5%	1/4W	
R002	1-247-693-11	CARBON	27	5%	1/4W	
R003	1-249-405-11	CARBON	100	5%	1/4W	
R031	1-249-411-11	CARBON	330	5%	1/4W	
R032	1-249-411-11	CARBON	330	5%	1/4W	
R033	1-247-895-00	CARBON	470K	5%	1/4W	
R034	1-247-895-00	CARBON	470K	5%	1/4W	
R035	1-249-429-11	CARBON	10K	5%	1/4W	
R036	1-249-421-11	CARBON	2.2K	5%	1/4W	
R037	1-249-429-11	CARBON	10K	5%	1/4W	
R038	1-249-429-11	CARBON	10K	5%	1/4W	
R039	1-249-429-11	CARBON	10K	5%	1/4W	
R101	1-249-739-11	CARBON	560K	5%	1/2W	
R102	1-249-556-11	CARBON	1.5K	5%	1/4W	
R103	1-247-713-11	CARBON	1K	5%	1/4W	
R104	1-249-798-11	CARBON	680	1%	1/2W	
R105	1-247-259-00	CARBON	6.8K	1%	1/2W	
R106	1-249-469-11	CARBON	100K	5%	1/4W	
R107	1-247-719-11	CARBON	3.3K	1%	1/4W	
R108	1-249-951-11	CARBON	15K	1%	1/4W	
R109	1-249-947-11	CARBON	10K	1%	1/4W	
R110	1-249-947-11	CARBON	10K	1%	1/4W	
R111	1-247-711-11	CARBON	680	5%	1/4W	
R112	1-247-725-11	CARBON	10K	5%	1/4W	
R113	1-214-757-00	METAL	15K	1%	1/4W	
R114	1-214-753-00	METAL	10K	1%	1/4W	
R115	1-214-753-00	METAL	10K	1%	1/4W	
R116	1-214-767-00	METAL	39K	1%	1/4W	
R117	1-249-462-11	CARBON	22K	5%	1/4W	
R118	1-247-717-11	CARBON	2.2K	5%	1/4W	
R119	1-214-745-00	METAL	4.7K	1%	1/4W	
R121	1-246-545-00	CARBON	1M	5%	1/4W	
R122	1-247-713-11	CARBON	1K	1%	1/4W	
R123	1-249-929-11	CARBON	1.8K	1%	1/4W	
R124	1-249-929-11	CARBON	1.8K	1%	1/4W	
R125	1-249-929-11	CARBON	1.8K	1%	1/4W	
R126	1-249-460-11	CARBON	15K	5%	1/4W	
R127	1-249-460-11	CARBON	15K	5%	1/4W	
R128	1-249-469-11	CARBON	100K	5%	1/4W	
R129	1-247-741-11	CARBON	150	5%	1/2W	
R130	1-249-497-11	CARBON	33K	5%	1/4W	
R131	1-249-586-11	CARBON	27K	5%	1/4W	
R132	1-249-596-11	CARBON	68K	5%	1/4W	
R133	1-249-421-11	CARBON	2.2K	5%	1/4W	
R134	1-215-476-00	CARBON	200K	5%	1/4W	
R135	1-249-410-11	CARBON	270	5%	1/4W	
R136	1-215-420-00	CARBON	910	5%	1/4W	
R137	1-249-411-11	CARBON	330	5%	1/4W	
R138	1-249-417-11	CARBON	1K	5%	1/4W	
R139	1-215-493-00	CARBON	1M	5%	1/4W	
R140	1-249-429-11	CARBON	10K	5%	1/4W	
R141	1-249-417-11	CARBON	1K	5%	1/4W	
R142	1-215-493-00	CARBON	1M	5%	1/4W	
R143	1-249-860-11	CARBON	270K	1%	1/2W	
R144	1-249-657-11	CARBON	220	5%	1/2W	
R145	1-249-945-11	CARBON	8.2K	1%	1/4W	
R146	1-247-702-11	CARBON	150	5%	1/4W	
R147	1-246-545-00	CARBON	1M	5%	1/4W	
R148	1-249-943-11	CARBON	6.8K	1%	1/4W	
R149	1-249-962-11	CARBON	43K	1%	1/4W	
R150	1-249-462-11	CARBON	22K	5%	1/4W	
R151	1-249-753-15	CARBON	4.7M	5%	1/4W	
R152	1-246-545-00	CARBON	1M	5%	1/4W	
R312	1-249-419-11	CARBON	1.5K	5%	1/4W	
R313	1-247-887-00	CARBON	220K	5%	1/4W	
R314	1-249-427-11	CARBON	6.8K	5%	1/4W	
R315	1-249-421-11	CARBON	2.2K	5%	1/4W	
R316	1-249-429-11	CARBON	10K	5%	1/4W	
R317	1-249-417-11	CARBON	1K	5%	1/4W	
R318	1-249-424-11	CARBON	3.9K	5%	1/4W	
R319	1-214-859-00	METAL	620	1%	1/2W	
R320	1-214-866-00	METAL	1.2K	1%	1/2W	
R321	1-214-866-00	METAL	1.2K	1%	1/2W	
R322	1-214-861-00	METAL	750	1%	1/2W	
R323	1-247-719-11	CARBON	3.3K	5%	1/4W	
R324	1-247-711-11	CARBON	680	5%	1/4W	
R325	1-249-466-11	CARBON	56K	5%	1/4W	
R326	1-249-466-11	CARBON	56K	5%	1/4W	
R327	1-247-711-11	CARBON	680	5%	1/4W	
R328	1-247-719-11	CARBON	3.3K	5%	1/4W	
R329	1-247-706-11	CARBON	330	5%	1/4W	
R330	1-247-706-11	CARBON	330	5%	1/4W	
R331	1-249-435-11	CARBON	33K	5%	1/4W	
R332	1-249-433-11	CARBON	22K	5%	1/4W	
R333	1-249-421-11	CARBON	2.2K	5%	1/4W	
R334	1-249-429-11	CARBON	10K	5%	1/4W	
R335	1-247-104-00	CARBON	75	5%	1/4W	
R336	1-249-435-11	CARBON	33K	5%	1/4W	
R337	1-249-433-11	CARBON	22K	5%	1/4W	
R338	1-249-421-11	CARBON	2.2K	5%	1/4W	
R339	1-249-429-11	CARBON	10K	5%	1/4W	
R340	1-247-104-00	CARBON	75	5%	1/4W	
R341	⚠1-212-857-00	FUSIBLE	10	5%	1/4W	F
R342	⚠1-212-857-00	FUSIBLE	10	5%	1/4W	F
R343	1-214-734-00	METAL	1.6K	1%	1/4W	
R344	1-214-730-00	METAL	1.1K	1%	1/4W	
R401	1-216-001-00	METAL CHIP	10	5%	1/10W	
R402	1-216-001-00	METAL CHIP	10	5%	1/10W	
R403	1-216-001-00	METAL CHIP	10	5%	1/10W	
R404	1-216-083-00	METAL CHIP	27K	5%	1/10W	
R405	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R406	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R407	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R408	1-216-063-00	METAL CHIP	3.9K	5%	1/10W	
R409	1-216-041-00	METAL CHIP	470	5%	1/10W	
R410	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R411	1-216-064-00	METAL CHIP	4.3K	5%	1/10W	
R412	1-216-075-00	METAL CHIP	12K	5%	1/10W	
R413	1-216-093-00	METAL CHIP	68K	5%	1/10W	
R414	1-216-051-00	METAL CHIP	1.2K	5%	1/10W	
R415	1-216-029-00	METAL CHIP	150	5%	1/10W	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description			
R416	1-216-029-00	METAL CHIP	150	5%	1/10W
R417	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R418	1-216-049-00	METAL CHIP	1K	5%	1/10W
R419	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R420	1-216-049-00	METAL CHIP	1K	5%	1/10W
R421	1-216-049-00	METAL CHIP	1K	5%	1/10W
R422	1-216-074-00	METAL CHIP	11K	5%	1/10W
R423	1-216-073-00	METAL CHIP	10K	5%	1/10W
R424	1-216-049-00	METAL CHIP	1K	5%	1/10W
R425	1-216-093-00	METAL CHIP	68K	5%	1/10W
R426	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R427	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R428	1-216-085-00	METAL CHIP	33K	5%	1/10W
R429	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R430	1-216-075-00	METAL CHIP	12K	5%	1/10W
R431	1-216-033-00	METAL CHIP	220	5%	1/10W
R432	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R433	1-216-033-00	METAL CHIP	220	5%	1/10W
R434	1-216-049-00	METAL CHIP	1K	5%	1/10W
R435	1-216-074-00	METAL CHIP	11K	5%	1/10W
R436	1-216-073-00	METAL CHIP	10K	5%	1/10W
R437	1-216-049-00	METAL CHIP	1K	5%	1/10W
R438	1-216-101-00	METAL CHIP	150K	5%	1/10W
R439	1-216-073-00	METAL CHIP	10K	5%	1/10W
R440	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R441	1-216-085-00	METAL CHIP	33K	5%	1/10W
R442	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R443	1-216-001-00	METAL CHIP	10	5%	1/10W
R444	1-216-001-00	METAL CHIP	10	5%	1/10W
R501	1-249-433-11	CARBON	22K	5%	1/4W
R502	1-249-433-11	CARBON	22K	5%	1/4W
R503	1-247-891-00	CARBON	330K	5%	1/4W
R504	1-215-493-00	CARBON	1M	5%	1/4W
R505	1-215-489-00	CARBON	680K	5%	1/4W
R506	1-247-895-00	CARBON	470K	5%	1/4W
R507	1-215-461-00	METAL	47K	1%	1/6W
R508	1-215-466-00	METAL	75K	1%	1/6W
R509	1-249-401-11	CARBON	47	5%	1/4W
R510	1-249-411-11	CARBON	330	5%	1/4W
R511	1-249-435-11	CARBON	33K	5%	1/4W
R512	1-249-433-11	CARBON	22K	5%	1/4W
R513	1-249-409-11	CARBON	220	5%	1/4W
R514	1-249-437-11	CARBON	47K	5%	1/4W
R515	1-249-437-11	CARBON	47K	5%	1/4W
R516	1-249-437-11	CARBON	47K	5%	1/4W
R517	1-249-429-11	CARBON	10K	5%	1/4W
R518	1-215-462-00	CARBON	51K	5%	1/4W
R519	1-249-437-11	CARBON	47K	5%	1/4W
R520	1-249-437-11	CARBON	47K	5%	1/4W
R521	1-249-441-11	CARBON	100K	5%	1/4W
R522	1-215-454-00	CARBON	24K	5%	1/4W
R523	1-215-477-00	METAL	220K	1%	1/6W
R524	1-215-461-00	METAL	47K	1%	1/6W
R525	1-215-438-00	METAL	5.1K	1%	1/6W
R526	1-215-438-00	METAL	5.1K	1%	1/6W
R527	1-249-429-11	CARBON	10K	5%	1/4W
R528	1-249-429-11	CARBON	10K	5%	1/4W
R529	1-215-493-00	CARBON	1M	5%	1/4W
R530	1-249-401-11	CARBON	47	5%	1/4W
R531	1-249-417-11	CARBON	1K	5%	1/4W
R532	1-215-445-00	METAL	10K	1%	1/6W
R533	1-215-445-00	METAL	10K	1%	1/6W
R534	1-249-420-11	CARBON	1.8K	5%	1/4W
R535	1-249-429-11	CARBON	10K	5%	1/4W
R536	1-215-439-00	METAL	5.6K	1%	1/6W
R537	1-247-891-00	CARBON	330K	5%	1/4W
R538	1-249-433-11	CARBON	22K	5%	1/4W
R539	1-215-462-00	CARBON	51K	5%	1/4W
R540	1-249-433-11	CARBON	22K	5%	1/4W
R541	1-249-435-11	CARBON	33K	5%	1/4W
R542	1-249-425-11	CARBON	4.7K	5%	1/4W
R543	1-249-417-11	CARBON	1K	5%	1/4W
R544	1-249-425-11	CARBON	4.7K	5%	1/4W
R545	1-249-417-11	CARBON	1K	5%	1/4W
R546	1-249-425-11	CARBON	4.7K	5%	1/4W
R547	1-249-417-11	CARBON	1K	5%	1/4W
R548	1-249-435-11	CARBON	33K	5%	1/4W
R549	1-249-439-11	CARBON	68K	5%	1/4W
R550	1-249-435-11	CARBON	33K	5%	1/4W
R551	1-249-423-11	CARBON	3.3K	5%	1/4W
R552	1-249-431-11	CARBON	15K	5%	1/4W
R553	1-249-428-11	CARBON	8.2K	5%	1/4W
R554	1-247-883-00	CARBON	150K	5%	1/4W
R555	1-249-441-11	CARBON	100K	5%	1/4W
R556	1-249-433-11	CARBON	22K	5%	1/4W
R557	1-249-441-11	CARBON	100K	5%	1/4W
R558	1-249-425-11	CARBON	4.7K	5%	1/4W
R559	1-215-445-00	METAL	10K	1%	1/6W
R560	1-215-453-00	METAL	22K	1%	1/6W
R561	1-215-457-00	METAL	33K	1%	1/6W
R562	1-249-433-11	CARBON	22K	5%	1/4W
R563	1-249-417-11	CARBON	1K	5%	1/4W
R564	1-249-435-11	CARBON	33K	5%	1/4W
R565	1-249-429-11	CARBON	10K	5%	1/4W
R566	1-247-883-00	CARBON	150K	5%	1/4W
R567	1-247-883-00	CARBON	150K	5%	1/4W
R568	1-249-417-11	CARBON	1K	5%	1/4W
R569	1-249-417-11	CARBON	1K	5%	1/4W
R570	1-249-401-11	CARBON	47	5%	1/4W
R571	1-215-461-00	METAL	47K	1%	1/6W
R572	1-215-466-00	METAL	75K	1%	1/6W
R573	1-215-442-00	METAL	7.5K	1%	1/6W
R574	1-215-454-00	METAL	24K	1%	1/6W
R575	1-215-438-00	CARBON	5.1K	5%	1/4W
R576	1-249-431-11	CARBON	15K	5%	1/4W
R577	1-249-439-11	CARBON	68K	5%	1/4W
R578	1-249-435-11	CARBON	33K	5%	1/4W
R579	1-249-433-11	CARBON	22K	5%	1/4W
R580	1-249-433-11	CARBON	22K	5%	1/4W
R581	1-249-425-11	CARBON	4.7K	5%	1/4W
R582	1-249-417-11	CARBON	1K	5%	1/4W
R583	1-249-431-11	CARBON	15K	5%	1/4W
R584	1-249-435-11	CARBON	33K	5%	1/4W
R585	1-249-417-11	CARBON	1K	5%	1/4W

Ref.No.	Part No.	Description				
R586	1-249-433-11	CARBON	22K	5%	1/4W	
R587	1-249-433-11	CARBON	22K	5%	1/4W	
R588	1-249-437-11	CARBON	47K	5%	1/4W	
R589	1-249-437-11	CARBON	47K	5%	1/4W	
R590	1-249-433-11	CARBON	22K	5%	1/4W	
R591	1-249-433-11	CARBON	22K	5%	1/4W	
R592	1-215-493-00	CARBON	1M	5%	1/4W	
R593	1-249-435-11	CARBON	33K	5%	1/4W	
R594	1-249-435-11	CARBON	33K	5%	1/4W	
R595	1-249-437-11	CARBON	47K	5%	1/4W	
R596	1-249-429-11	CARBON	10K	5%	1/4W	
R597	1-249-431-11	CARBON	15K	5%	1/4W	
R598	1-249-429-11	CARBON	10K	5%	1/4W	
R599	1-249-417-11	CARBON	1K	5%	1/4W	
R600	1-249-417-11	CARBON	1K	5%	1/4W	
R601	1-249-423-11	CARBON	3.3K	5%	1/4W	
R602	1-249-423-11	CARBON	3.3K	5%	1/4W	
R603	1-249-421-11	CARBON	2.2K	5%	1/4W	
R604	1-249-417-11	CARBON	1K	5%	1/4W	
R605	1-249-441-11	CARBON	100K	5%	1/4W	
R606	1-249-425-11	CARBON	4.7K	5%	1/4W	
R607	1-249-425-11	CARBON	4.7K	5%	1/4W	
R608	1-249-425-11	CARBON	4.7K	5%	1/4W	
R609	1-215-469-00	METAL	100K	1%	1/6W	
R610	1-249-405-11	CARBON	100	5%	1/4W	
R611	1-249-429-11	CARBON	10K	5%	1/4W	
R612	1-249-429-11	CARBON	10K	5%	1/4W	
R613	1-249-405-11	CARBON	100	5%	1/4W	
R614	1-249-407-11	CARBON	150	5%	1/4W	
R615	1-249-447-11	CARBON	1	5%	1/4W	
R616	1-249-447-11	CARBON	1	5%	1/4W	
R617	1-249-389-11	CARBON	4.7	5%	1/4W	
R618	1-215-469-00	METAL	100K	1%	1/6W	
R619	1-249-405-11	CARBON	100	5%	1/4W	
R620	1-249-429-11	CARBON	10K	5%	1/4W	
R621	1-249-429-11	CARBON	10K	5%	1/4W	
R622	1-249-405-11	CARBON	100	5%	1/4W	
R623	1-249-407-11	CARBON	150	5%	1/4W	
R624	1-249-447-11	CARBON	1	5%	1/4W	
R625	1-249-447-11	CARBON	1	5%	1/4W	
R626	1-249-389-11	CARBON	4.7	5%	1/4W	
R627	1-249-415-11	CARBON	680	5%	1/4W	
R628	1-249-421-11	CARBON	2.2K	5%	1/4W	
R629	1-249-425-11	CARBON	4.7K	5%	1/4W	
R630	1-215-394-00	CARBON	75	5%	1/4W	
R631	1-249-401-11	CARBON	47	5%	1/4W	
R632	1-249-423-11	CARBON	3.3K	5%	1/4W	
R633	1-249-427-11	CARBON	6.8K	5%	1/4W	
R634	1-249-423-11	CARBON	3.3K	5%	1/4W	
R635	1-249-417-11	CARBON	1K	5%	1/4W	
R636	1-249-417-11	CARBON	1K	5%	1/4W	
R637	1-249-435-11	CARBON	33K	5%	1/4W	
R638	1-249-437-11	CARBON	47K	5%	1/4W	
R639	1-249-421-11	CARBON	2.2K	5%	1/4W	
R640	1-249-425-11	CARBON	4.7K	5%	1/4W	
R641	1-215-394-00	CARBON	75	5%	1/4W	
R642	1-249-401-11	CARBON	47	5%	1/4W	
R643	1-249-423-11	CARBON	3.3K	5%	1/4W	
R644	1-249-427-11	CARBON	6.8K	5%	1/4W	
R645	1-249-423-11	CARBON	3.3K	5%	1/4W	
R646	1-249-417-11	CARBON	1K	5%	1/4W	
R647	1-249-417-11	CARBON	1K	5%	1/4W	
R648	1-249-435-11	CARBON	33K	5%	1/4W	
R649	1-249-437-11	CARBON	47K	5%	1/4W	
R650	1-249-409-11	CARBON	220	5%	1/4W	
R651	1-247-826-00	CARBON	620	5%	1/4W	
R652	1-249-433-11	CARBON	22K	5%	1/4W	
R653	1-249-427-11	CARBON	6.8K	5%	1/4W	
R654	1-249-427-11	CARBON	6.8K	5%	1/4W	
R655	1-215-486-00	CARBON	510K	5%	1/4W	
R656	1-249-435-11	CARBON	33K	5%	1/4W	
R657	1-249-435-11	CARBON	33K	5%	1/4W	
R658	1-249-432-11	CARBON	18K	5%	1/4W	
R659	1-249-432-11	CARBON	18K	5%	1/4W	
R660	1-215-489-00	CARBON	680K	5%	1/4W	
R661	1-249-431-11	CARBON	15K	5%	1/4W	
R662	1-249-431-11	CARBON	15K	5%	1/4W	
R663	1-215-489-00	CARBON	680K	5%	1/4W	
R664	1-247-891-00	CARBON	330K	5%	1/4W	
R665	1-249-431-11	CARBON	15K	5%	1/4W	
R666	1-249-405-11	CARBON	100	5%	1/4W	
R667	1-249-425-11	CARBON	4.7K	5%	1/4W	
R668	1-249-407-11	CARBON	150	5%	1/4W	
R669	1-249-432-11	CARBON	18K	5%	1/4W	
R670	1-249-429-11	CARBON	10K	5%	1/4W	
R671	1-249-433-11	CARBON	22K	5%	1/4W	
R672	1-249-432-11	CARBON	18K	5%	1/4W	
R673	1-249-433-11	CARBON	22K	5%	1/4W	
R674	1-249-419-11	CARBON	1.5K	5%	1/4W	
R675	1-249-429-11	CARBON	10K	5%	1/4W	
R676	1-249-437-11	CARBON	47K	5%	1/4W	
R677	1-249-437-11	CARBON	47K	5%	1/4W	
R678	1-249-423-11	CARBON	3.3K	5%	1/4W	
R679	1-249-423-11	CARBON	3.3K	5%	1/4W	
R680	1-249-423-11	CARBON	3.3K	5%	1/4W	
R681	1-249-423-11	CARBON	3.3K	5%	1/4W	
R682	1-249-423-11	CARBON	3.3K	5%	1/4W	
R683	1-249-423-11	CARBON	3.3K	5%	1/4W	
R684	1-249-409-11	CARBON	220	5%	1/4W	
R685	1-249-429-11	CARBON	10K	5%	1/4W	
R686	1-249-409-11	CARBON	220	5%	1/4W	
R687	1-249-429-11	CARBON	10K	5%	1/4W	
R688	⚠1-215-881-11	METAL OXIDE	15	5%	2W	F
R689	1-249-423-11	CARBON	3.3K	5%	1/4W	
R690	1-249-416-11	CARBON	820	5%	1/4W	
R691	1-249-484-11	CARBON	6.8	5%	1/2W	
R692	1-249-429-11	CARBON	10K	5%	1/4W	
R693	1-249-417-11	CARBON	1K	5%	1/4W	
R694	1-249-409-11	CARBON	220	5%	1/4W	
R695	1-249-405-11	CARBON	100	5%	1/4W	
R696	1-249-427-11	CARBON	6.8K	5%	1/4W	
R701	1-215-452-00	CARBON	20K	5%	1/4W	
R702	1-215-452-00	CARBON	20K	5%	1/4W	
R703	1-215-452-00	CARBON	20K	5%	1/4W	

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Ref.No.	Part No.	Description			
R704	1-215-493-00	CARBON	1M	5%	1/4W
R705	1-249-425-11	CARBON	4.7K	5%	1/4W
R706	1-249-425-11	CARBON	4.7K	5%	1/4W
R707	1-249-425-11	CARBON	4.7K	5%	1/4W
R708	1-249-433-11	CARBON	22K	5%	1/4W
R709	1-249-433-11	CARBON	22K	5%	1/4W
R710	1-215-493-00	CARBON	1M	5%	1/4W
R711	1-249-423-11	CARBON	3.3K	5%	1/4W
R712	1-249-425-11	CARBON	4.7K	5%	1/4W
R713	1-249-425-11	CARBON	4.7K	5%	1/4W
R714	1-249-429-11	CARBON	10K	5%	1/4W
R715	1-249-429-11	CARBON	10K	5%	1/4W
R716	1-249-429-11	CARBON	10K	5%	1/4W
R717	1-249-429-11	CARBON	10K	5%	1/4W
R718	1-249-429-11	CARBON	10K	5%	1/4W
R719	1-249-423-11	CARBON	3.3K	5%	1/4W
R720	1-247-887-00	CARBON	220K	5%	1/4W
R721	1-247-887-00	CARBON	220K	5%	1/4W
R722	1-249-433-11	CARBON	22K	5%	1/4W
R723	1-249-433-11	CARBON	22K	5%	1/4W
R724	1-249-441-11	CARBON	100K	5%	1/4W
R725	1-249-429-11	CARBON	10K	5%	1/4W
R726	1-249-421-11	CARBON	2.2K	5%	1/4W
R727	1-249-421-11	CARBON	2.2K	5%	1/4W
R728	1-249-421-11	CARBON	2.2K	5%	1/4W
R729	1-249-421-11	CARBON	2.2K	5%	1/4W
R733	1-249-425-11	CARBON	4.7K	5%	1/4W
R734	1-249-417-11	CARBON	1K	5%	1/4W
R735	1-249-441-11	CARBON	100K	5%	1/4W
R736	1-249-429-11	CARBON	10K	5%	1/4W
R737	1-215-452-00	CARBON	20K	5%	1/4W
R738	1-249-429-11	CARBON	10K	5%	1/4W
R739	1-249-429-11	CARBON	10K	5%	1/4W
R740	1-215-452-00	CARBON	20K	5%	1/4W
R741	1-215-452-00	CARBON	20K	5%	1/4W
R742	1-249-429-11	CARBON	10K	5%	1/4W
R743	1-215-452-00	CARBON	20K	5%	1/4W
R744	1-215-438-00	CARBON	5.1K	5%	1/4W
R745	1-249-433-11	CARBON	22K	5%	1/4W
R746	1-249-433-11	CARBON	22K	5%	1/4W
R747	1-249-433-11	CARBON	22K	5%	1/4W
R748	1-249-433-11	CARBON	22K	5%	1/4W
R749	1-249-433-11	CARBON	22K	5%	1/4W
R750	1-249-433-11	CARBON	22K	5%	1/4W
R751	1-249-433-11	CARBON	22K	5%	1/4W
R752	1-249-433-11	CARBON	22K	5%	1/4W
R753	1-249-433-11	CARBON	22K	5%	1/4W
R754	1-249-429-11	CARBON	10K	5%	1/4W
R755	1-249-429-11	CARBON	10K	5%	1/4W
R756	1-249-429-11	CARBON	10K	5%	1/4W
R757	1-249-429-11	CARBON	10K	5%	1/4W
R758	1-249-441-11	CARBON	100K	5%	1/4W
R781	1-215-398-00	CARBON	110	5%	1/4W
R782	1-215-398-00	CARBON	110	5%	1/4W
R783	1-249-413-11	CARBON	470	5%	1/4W
R784	1-249-413-11	CARBON	470	5%	1/4W
R785	1-215-398-00	CARBON	110	5%	1/4W

Ref.No.	Part No.	Description			
R786	1-249-407-11	CARBON	150	5%	1/4W
R787	1-215-398-00	CARBON	110	5%	1/4W
R788	1-215-398-00	CARBON	110	5%	1/4W
R789	1-215-398-00	CARBON	110	5%	1/4W
R790	1-249-413-11	CARBON	470	5%	1/4W
R802	1-249-417-11	CARBON	1K	5%	1/4W
R803	1-249-429-11	CARBON	10K	5%	1/4W
R805	1-249-417-11	CARBON	1K	5%	1/4W
R806	1-249-405-11	CARBON	100	5%	1/4W
R807	1-249-431-11	CARBON	15K	5%	1/4W
R808	1-215-442-00	CARBON	7.5K	5%	1/4W
R809	1-249-424-11	CARBON	3.9K	5%	1/4W
R810	1-249-425-11	CARBON	4.7K	5%	1/4W
R811	1-249-433-11	CARBON	22K	5%	1/4W
R812	1-249-435-11	CARBON	33K	5%	1/4W
R813	1-249-429-11	CARBON	10K	5%	1/4W
R814	1-249-441-11	CARBON	100K	5%	1/4W
R815	1-215-470-00	CARBON	110K	5%	1/4W
R816	1-247-881-00	CARBON	120K	5%	1/4W
R817	1-247-881-00	CARBON	120K	5%	1/4W
R818	1-249-429-11	CARBON	10K	5%	1/4W
R819	1-249-431-11	CARBON	15K	5%	1/4W
R820	1-249-429-11	CARBON	10K	5%	1/4W
R821	1-249-425-11	CARBON	4.7K	5%	1/4W
R822	1-249-425-11	CARBON	4.7K	5%	1/4W
R823	1-249-434-11	CARBON	27K	5%	1/4W
R824	1-215-453-00	METAL	22K	1%	1/6W
R825	1-215-453-00	METAL	22K	1%	1/6W
R826	1-249-425-11	CARBON	4.7K	5%	1/4W
R827	1-249-435-11	CARBON	33K	5%	1/4W
R828	1-249-429-11	CARBON	10K	5%	1/4W
R851	1-249-419-11	CARBON	1.5K	5%	1/4W
R852	1-249-424-11	CARBON	3.9K	5%	1/4W
R853	1-249-433-11	CARBON	22K	5%	1/4W
R854	1-249-441-11	CARBON	100K	5%	1/4W
R860	1-215-440-00	CARBON	6.2K	5%	1/4W
R861	1-249-433-11	CARBON	22K	5%	1/4W
R862	1-215-440-00	CARBON	6.2K	5%	1/4W
R864	1-249-432-11	CARBON	18K	5%	1/4W
R865	1-249-438-11	CARBON	56K	5%	1/4W
R868	1-247-851-11	CARBON	6.8K	5%	1/4W
R870	1-249-429-11	CARBON	10K	5%	1/4W
R901	⚠1-212-865-00	FUSIBLE	22	5%	1/4W F
R902	1-249-419-11	CARBON	1.5K	5%	1/4W
R904	1-249-417-11	CARBON	1K	5%	1/4W
R905	1-249-440-11	CARBON	82K	5%	1/4W
R906	1-249-418-11	CARBON	1.2K	5%	1/4W
R907	1-249-418-11	CARBON	1.2K	5%	1/4W
R908	1-249-421-11	CARBON	2.2K	5%	1/4W
R909	1-249-419-11	CARBON	1.5K	5%	1/4W
R910	1-215-438-00	CARBON	5.1K	5%	1/4W
R912	1-249-418-11	CARBON	1.2K	5%	1/4W
R913	1-249-421-11	CARBON	2.2K	5%	1/4W
R914	1-215-420-00	CARBON	910	5%	1/4W
R915	1-215-438-00	CARBON	5.1K	5%	1/4W
R916	⚠1-212-934-00	FUSIBLE	1	5%	1/2W F
R917	⚠1-212-948-00	FUSIBLE	3.9	5%	1/2W F

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Ref.No.	Part No.	Description				
R918	⚠1-212-948-00	FUSIBLE	3.9	5%	1/2W	F
R919	⚠1-217-383-00	FUSIBLE	4.7	5%	1/4W	F
R920	1-247-895-00	CARBON	470K	5%	1/4W	
R921	1-249-437-11	CARBON	47K	5%	1/4W	
R922	⚠1-212-865-00	FUSIBLE	22	5%	1/4W	F
R951	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R952	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R953	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R954	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R955	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R956	1-216-083-00	METAL CHIP	27K	5%	1/10W	
R957	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R958	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R959	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R960	1-216-079-00	METAL CHIP	18K	5%	1/10W	
R961	1-216-079-00	METAL CHIP	18K	5%	1/10W	
R962	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R963	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R964	1-216-083-00	METAL CHIP	27K	5%	1/10W	
R965	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R966	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R967	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R968	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R969	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R970	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R971	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R972	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R973	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R974	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R1001	1-249-407-11	CARBON	150	5%	1/4W	
R1002	1-249-657-11	CARBON	220	5%	1/2W	
R1003	1-249-657-11	CARBON	220	5%	1/2W	
R1101	1-249-461-11	CARBON	18K	5%	1/4W	
R1102	1-247-714-11	CARBON	1.2K	5%	1/4W	
R1103	1-249-469-11	CARBON	100K	5%	1/4W	
R1104	1-247-713-11	CARBON	1K	5%	1/4W	
R1105	1-249-461-11	CARBON	18K	5%	1/4W	
R1106	1-214-753-00	METAL	10K	1%	1/4W	
R1107	1-214-753-00	METAL	10K	1%	1/4W	
R1108	1-214-755-00	METAL	12K	1%	1/4W	
R1109	1-214-755-00	METAL	12K	1%	1/4W	
R1110	1-214-755-00	METAL	12K	1%	1/4W	
R1111	1-214-755-00	METAL	12K	1%	1/4W	
R1112	1-214-745-00	METAL	4.7K	1%	1/4W	
R1113	1-247-702-11	CARBON	150	5%	1/4W	
R1114	1-214-745-00	METAL	4.7K	1%	1/4W	
R1115	1-214-745-00	METAL	4.7K	1%	1/4W	
R1116	1-247-702-11	CARBON	150	5%	1/4W	
R1117	1-214-745-00	METAL	4.7K	1%	1/4W	
R1118	1-249-469-11	CARBON	100K	5%	1/4W	
R1119	1-249-469-11	CARBON	100K	5%	1/4W	
R1120	1-214-761-00	METAL	22K	1%	1/4W	
R1121	1-214-761-00	METAL	22K	1%	1/4W	
R1122	1-214-747-00	METAL	5.6K	1%	1/4W	
R1123	1-214-747-00	METAL	5.6K	1%	1/4W	
R1124	1-247-713-11	CARBON	1K	5%	1/4W	
R1125	1-249-520-11	CARBON	47	5%	1/4W	
R1126	1-247-717-11	CARBON	2.2K	5%	1/4W	
R1127	1-247-713-11	CARBON	1K	5%	1/4W	
R1128	1-214-740-00	METAL	3K	1%	1/4W	
R1129	1-214-712-00	METAL	200	1%	1/4W	
R1130	1-214-964-00	METAL	1M	1%	1/4W	
R1131	1-249-469-11	CARBON	100K	5%	1/4W	
R1132	1-214-753-00	METAL	10K	1%	1/4W	
R1133	1-214-753-00	METAL	10K	1%	1/4W	
R1134	1-249-469-11	CARBON	100K	5%	1/4W	
R1135	1-247-704-11	CARBON	220	5%	1/4W	
R1201	1-249-461-11	CARBON	18K	5%	1/4W	
R1202	1-247-714-11	CARBON	1.2K	5%	1/4W	
R1203	1-249-469-11	CARBON	100K	5%	1/4W	
R1204	1-249-798-11	CARBON	680	1%	1/4W	
R1205	1-249-461-11	CARBON	18K	5%	1/2W	
R1206	1-214-753-00	METAL	10K	1%	1/4W	
R1207	1-214-753-00	METAL	10K	1%	1/4W	
R1208	1-214-755-00	METAL	12K	1%	1/4W	
R1209	1-214-755-00	METAL	12K	1%	1/4W	
R1210	1-214-755-00	METAL	12K	1%	1/4W	
R1211	1-214-755-00	METAL	12K	1%	1/4W	
R1212	1-214-745-00	METAL	4.7K	1%	1/4W	
R1213	1-247-702-11	CARBON	150	5%	1/4W	
R1214	1-214-745-00	METAL	4.7K	1%	1/4W	
R1215	1-214-745-00	METAL	4.7K	1%	1/4W	
R1216	1-247-702-11	CARBON	150	5%	1/4W	
R1217	1-214-745-00	METAL	4.7K	1%	1/4W	
R1218	1-249-469-11	CARBON	100K	5%	1/4W	
R1219	1-249-469-11	CARBON	100K	5%	1/4W	
R1220	1-214-761-00	METAL	22K	1%	1/4W	
R1221	1-214-761-00	METAL	22K	1%	1/4W	
R1222	1-214-747-00	METAL	5.6K	1%	1/4W	
R1223	1-214-747-00	METAL	5.6K	1%	1/4W	
R1224	1-247-713-11	CARBON	1K	5%	1/4W	
R1225	1-249-520-11	CARBON	47	5%	1/4W	
R1226	1-249-460-11	CARBON	15K	5%	1/4W	
R1227	1-249-460-11	CARBON	15K	5%	1/4W	
R1228	1-214-740-00	METAL	3K	1%	1/4W	
R1229	1-214-712-00	METAL	200	1%	1/4W	
R1230	1-214-964-00	METAL	1M	1%	1/4W	
R1231	1-249-469-11	CARBON	100K	5%	1/4W	
R1232	1-214-753-00	METAL	10K	1%	1/4W	
R1233	1-214-753-00	METAL	10K	1%	1/4W	
R1234	1-249-469-11	CARBON	100K	5%	1/4W	
R1235	1-247-704-11	CARBON	220	5%	1/4W	
R1301	1-247-104-00	CARBON	75	5%	1/4W	
R1302	1-249-429-11	CARBON	10K	5%	1/4W	
R1303	1-249-431-11	CARBON	15K	5%	1/4W	
R1304	1-249-431-11	CARBON	15K	5%	1/4W	
R1305	1-249-429-11	CARBON	10K	5%	1/4W	
R1306	1-247-104-00	CARBON	75	5%	1/4W	
R1501	1-214-706-00	METAL	110	1%	1/4W	
R1502	1-247-700-11	CARBON	100	5%	1/4W	
R1503	1-247-700-11	CARBON	100	5%	1/4W	
R1504	1-249-429-11	CARBON	10K	5%	1/4W	
R1505	1-249-429-11	CARBON	10K	5%	1/4W	
R1506	1-247-688-11	CARBON	10	5%	1/4W	

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Ref.No.	Part No.	Description			
R1507	1-247-688-11	CARBON	10	5%	1/4W
R1508	1-249-441-11	CARBON	100K	5%	1/4W
R1509	1-249-429-11	CARBON	10K	5%	1/4W
R1510	1-249-429-11	CARBON	10K	5%	1/4W
R1511	1-249-441-11	CARBON	100K	5%	1/4W
R1512	1-249-441-11	CARBON	100K	5%	1/4W
R1513	1-249-425-11	CARBON	4.7K	5%	1/4W
R1514	1-249-421-11	CARBON	2.2K	5%	1/4W
R1515	1-249-425-11	CARBON	4.7K	5%	1/4W
R1516	1-249-421-11	CARBON	2.2K	5%	1/4W
R1517	1-215-394-00	CARBON	75	5%	1/4W
R1518	1-215-394-00	CARBON	75	5%	1/4W
R1519	1-249-429-11	CARBON	10K	5%	1/4W
R1520	1-249-409-11	CARBON	220	5%	1/4W
R1521	1-249-405-11	CARBON	100	5%	1/4W
R1522	1-249-429-11	CARBON	10K	5%	1/4W
R1523	1-249-429-11	CARBON	10K	5%	1/4W
R1524	1-249-429-11	CARBON	10K	5%	1/4W
R1525	1-249-429-11	CARBON	10K	5%	1/4W
R1526	1-249-429-11	CARBON	10K	5%	1/4W
R1527	1-249-429-11	CARBON	10K	5%	1/4W
R1528	1-249-429-11	CARBON	10K	5%	1/4W
R1529	1-249-429-11	CARBON	10K	5%	1/4W
R1530	1-249-429-11	CARBON	10K	5%	1/4W
R1531	1-249-429-11	CARBON	10K	5%	1/4W
R1856	1-249-437-11	CARBON	47K	5%	1/4W
R1857	1-249-421-11	CARBON	2.2K	5%	1/4W
R1858	1-247-104-00	CARBON	75	5%	1/4W
RV101	1-224-251-XX	RES, ADJ, METAL GLAZE 4.7K			
RV102	1-224-251-XX	RES, ADJ, METAL GLAZE 4.7K			
RV103	1-226-772-11	RES, ADJ, METAL GLAZE 4.7K			
RV201	1-224-251-XX	RES, ADJ, METAL GLAZE 4.7K			
RV202	1-224-251-XX	RES, ADJ, METAL GLAZE 4.7K			
RV203	1-226-772-11	RES, ADJ, METAL GLAZE 4.7K			
RV301	1-228-127-00	RES, VAR, CARBON 20K			
RV302	1-237-590-11	RES, VAR, CARBON 20K/20K			
RV501	1-224-253-XX	RES, ADJ, METAL GLAZE 22K			
RV502	1-226-774-00	RES, ADJ, METAL GLAZE 47K			
RV503	1-226-775-11	RES, ADJ, METAL GLAZE 100K			
RV504	1-226-774-00	RES, ADJ, METAL GLAZE 47K			
RV505	1-224-254-XX	RES, ADJ, METAL GLAZE 47K			
RV506	1-226-772-11	RES, ADJ, METAL GLAZE 4.7K			
RV507	1-226-773-11	RES, ADJ, METAL GLAZE 22K			
RV508	1-226-773-11	RES, ADJ, METAL GLAZE 22K			
RV509	1-226-774-00	RES, ADJ, METAL GLAZE 47K			
RV510	1-226-774-00	RES, ADJ, METAL GLAZE 47K			
RV511	1-226-774-00	RES, ADJ, METAL GLAZE 47K			
RV801	1-226-703-11	RES, ADJ, METAL GLAZE 10K			
RV802	1-226-703-11	RES, ADJ, METAL GLAZE 10K			
RV804	1-226-774-00	RES, ADJ, METAL GLAZE 47K			
RV951	1-237-433-21	RES, ADJ, METAL GLAZE 470			
RV952	1-237-433-21	RES, ADJ, METAL GLAZE 470			
RV953	1-237-091-11	RES, ADJ, METAL GLAZE 100K			
RV954	1-237-091-11	RES, ADJ, METAL GLAZE 100K			
RV955	1-230-870-11	RES, ADJ, METAL GLAZE 10K			
RV956	1-230-870-11	RES, ADJ, METAL GLAZE 10K			
RV1101	1-237-889-11	RES, VAR, CARBON 10K			
RV1102	1-237-889-11	RES, VAR, CARBON 10K			

Ref.No.	Part No.	Description
RV1201	1-237-889-11	RES, VAR, CARBON 10K
RV1202	1-237-889-11	RES, VAR, CARBON 10K
RY301	1-515-448-00	RELAY
RY302	1-515-448-00	RELAY
RY1301	1-515-448-00	RELAY
RY1302	1-515-448-00	RELAY
S001	1-570-975-11	SWITCH, SLIDE (OUT)
S002	1-570-972-11	SWITCH (IN)
S003	1-570-973-11	SWITCH (UP)
S004	1-570-975-11	SWITCH, SLIDE (DOWN (IN))
S701	1-570-974-11	SWITCH, SLIDE (SKIP OFF/ON)
S702	1-570-974-11	SWITCH, SLIDE (INPUT SELECT)
S751	1-554-937-11	SWITCH, KEY BOARD (REC)
S752	1-554-937-11	SWITCH, KEY BOARD (PLAY)
S753	1-554-937-11	SWITCH, KEY BOARD (CVE)
S754	1-554-937-11	SWITCH, KEY BOARD (REVIEW)
S755	1-554-937-11	SWITCH, KEY BOARD (OPEN/CLOSE)
S756	1-554-937-11	SWITCH, KEY BOARD (STOP)
S757	1-554-937-11	SWITCH, KEY BOARD (AMS)
S758	1-554-937-11	SWITCH, KEY BOARD (AMS)
S759	1-554-937-11	SWITCH, KEY BOARD (REC MUTE)
S760	1-554-937-11	SWITCH, KEY BOARD (PAUSE OFF)
S761	1-571-267-11	SWITCH, KEY BOARD (WITH LED)(AUTO)
S762	1-571-267-11	SWITCH, KEY BOARD (WITH LED)(RENUMBER)
S763	1-554-937-11	SWITCH, KEY BOARD (MODE)
S764	1-554-937-11	SWITCH, KEY BOARD (RESET)
S765	1-571-267-11	SWITCH, KEY BOARD (WITH LED)(MAN)
S766	1-571-267-11	SWITCH, KEY BOARD (WITH LED)(WRITE)
S767	1-554-937-11	SWITCH, KEY BOARD (MEMORY)
S768	1-571-267-11	SWITCH, KEY BOARD (WITH LED)(ERACE)
S769	1-571-267-11	SWITCH, KEY BOARD (WITH LED)(ERACE)
S770	1-554-937-11	SWITCH, KEY BOARD (1)
S771	1-554-937-11	SWITCH, KEY BOARD (4)
S772	1-554-937-11	SWITCH, KEY BOARD (7)
S773	1-554-937-11	SWITCH, KEY BOARD (CLEAR)
S774	1-554-937-11	SWITCH, KEY BOARD (2)
S775	1-554-937-11	SWITCH, KEY BOARD (5)
S776	1-554-937-11	SWITCH, KEY BOARD (8)
S777	1-554-937-11	SWITCH, KEY BOARD (0)
S778	1-554-937-11	SWITCH, KEY BOARD (3)
S779	1-554-937-11	SWITCH, KEY BOARD (6)
S780	1-554-937-11	SWITCH, KEY BOARD (9)
S781	1-554-937-11	SWITCH, KEY BOARD (MUSIC SCAN START)
S782	1-553-206-00	SWITCH, SLIDE (TIMER)
S901	⚠1-553-318-00	SWITCH, PUSH (POWER)
S902	1-570-771-11	SWITCH LIMIT
S903	1-570-883-11	SWITCH, PUSH (2 KEY) CASSETTE DETECT A
S904	1-570-883-21	SWITCH, PUSH (2 KEY) CASSETTE DETECT B
S905	⚠1-526-576-41	SELECTOR, POWER VOLTAGE (VOLTAGE SELECTOR)
S1701	1-553-206-00	SWITCH, SLIDE (REMOTE)
S1901	⚠1-553-318-00	SWITCH, PUSH (AC POWER)(1 KEY)
S1902	⚠1-526-576-41	SELECTOR, POWER VOLTAGE (VOLTAGE SELECTOR)
S1903	1-552-853-00	SWITCH (SAUPLING FREQUENCY)
S1904	1-552-853-00	SWITCH (COPY PROHIBIT)
S1905	1-552-853-00	SWITCH (MASTER SAFE)

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Ref.No.	Part No.	Description
S1906	1-552-853-00	SWITCH (ENPHASIS)
S1907	1-571-294-11	SWITCH, TOGGLE
T901	⚠1-449-070-11	TRANSFORMER, POWER
T1901	⚠1-449-046-11	TRANSFORMER, POWER
TH501	1-800-202-XX	THERMISTOR S-10K
VC801	8-719-915-30	DIODE FC53M
X301	1-464-770-11	OSCILLATION UNIT, CRYSTAL
X501	1-567-170-00	OSCILLATOR, CERAMIC
X701	1-567-192-11	OSCILLATOR, CERAMIC
X702	1-527-532-00	OSCILLATOR, CERAMIC
X703	1-567-170-00	OSCILLATOR, CERAMIC
X801	1-567-816-11	VIBRATOR, CRYSTAL
X802	1-567-815-11	VIBRATOR, CRYSTAL
X803	1-567-814-11	VIBRATOR, CRYSTAL

ACCESSORY & PACKING MATERIAL

Part No.	Description
1-463-917-11	REMOTE COMMANDER (RM-R3)
1-463-918-11	REMOTE COMMANDER (RM-R2)
1-506-411-00	ADAPTOR, AC PLUG 3P-2P
1-551-475-31	CABLE ASSY
1-558-271-11	CORD, CONNECTION
1-559-558-11	CORD, CONNECTION
3-701-616-00	BAG, POLYETHYLENE
3-701-630-00	BAG, POLYETHYLENE
3-769-603-11	MANUAL, INSTRUCTION
4-360-273-01	SHEET, PROTECTION
4-885-979-11	SCREW (4X25)
X-4918-939-1	PANEL (LEFT) ASSY, SIDE
X-4918-940-1	PANEL (RIGHT) ASSY, SIDE

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